

freebsd-src-2 Scan Report

Project Name	freebsd-src-2
Scan Start	Saturday, June 22, 2024 1:59:40 AM
Preset	Checkmarx Default
Scan Time	00h:27m:11s
Lines Of Code Scanned	299306
Files Scanned	151
Report Creation Time	Saturday, June 22, 2024 9:03:30 AM
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088
Team	CxServer
Checkmarx Version	8.7.0
Scan Type	Full
Source Origin	LocalPath
Density	5/1000 (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
2016 All

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 2016	None

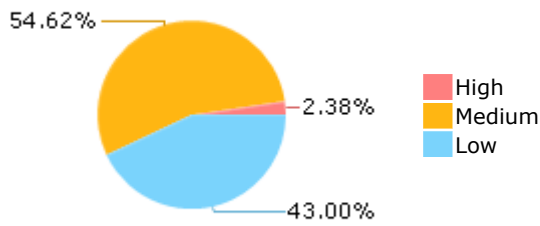
Results Limit

Results limit per query was set to 50

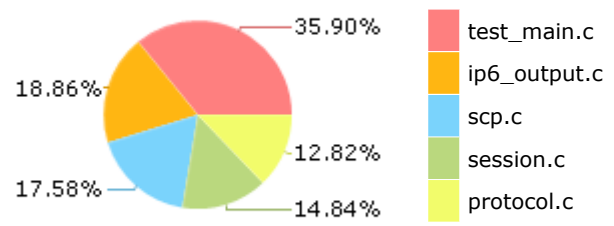
Selected Queries

Selected queries are listed in [Result Summary](#)

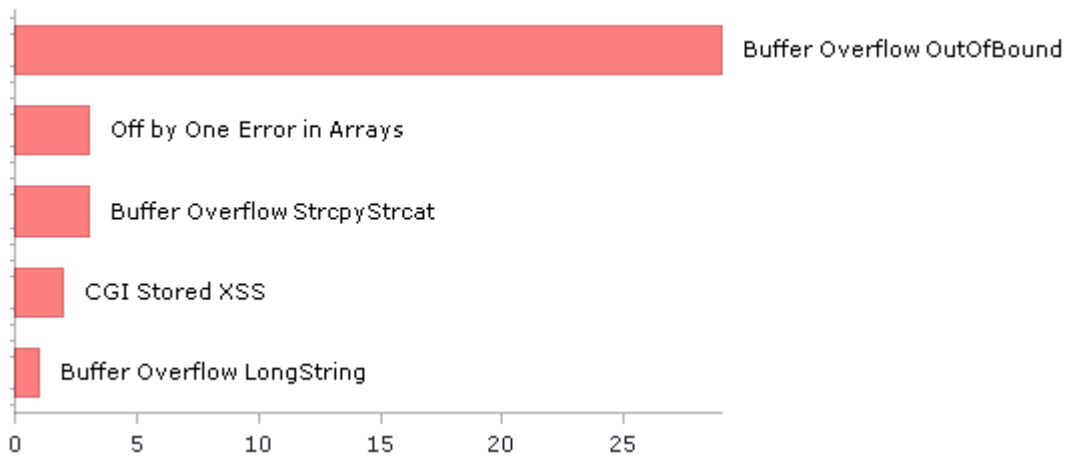
Result Summary



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	368	219
A2-Broken Authentication	App. Specific	EASY	COMMON	AVERAGE	SEVERE	App. Specific	188	188
A3-Sensitive Data Exposure	App. Specific	AVERAGE	WIDESPREAD	AVERAGE	SEVERE	App. Specific	14	6
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	3	2
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	2	1
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	360	360
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](https://owasp.org/Top10)

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	2	1
A4-Insecure Direct Object References	SYSTEM USERS	EASY	COMMON	EASY	MODERATE	EXPOSED DATA	3	2
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	13	5
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	360	360
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	3	3
PCI DSS (3.2) - 6.5.2 - Buffer overflows	225	201
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)	2	1
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.	37	37
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.	4	4
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.	39	39
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.	159	154
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.	7	4
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.	27	26

* 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)	227	227
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)*	1	1
SC-28 Protection of Information at Rest (P1)	1	1
SC-4 Information in Shared Resources (P1)	14	6
SC-5 Denial of Service Protection (P1)*	332	145
SC-8 Transmission Confidentiality and Integrity (P1)	0	0
SI-10 Information Input Validation (P1)*	82	58
SI-11 Error Handling (P2)*	102	102
SI-15 Information Output Filtering (P0)	2	1
SI-16 Memory Protection (P1)	27	19

* 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 wasn't 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 code-level 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

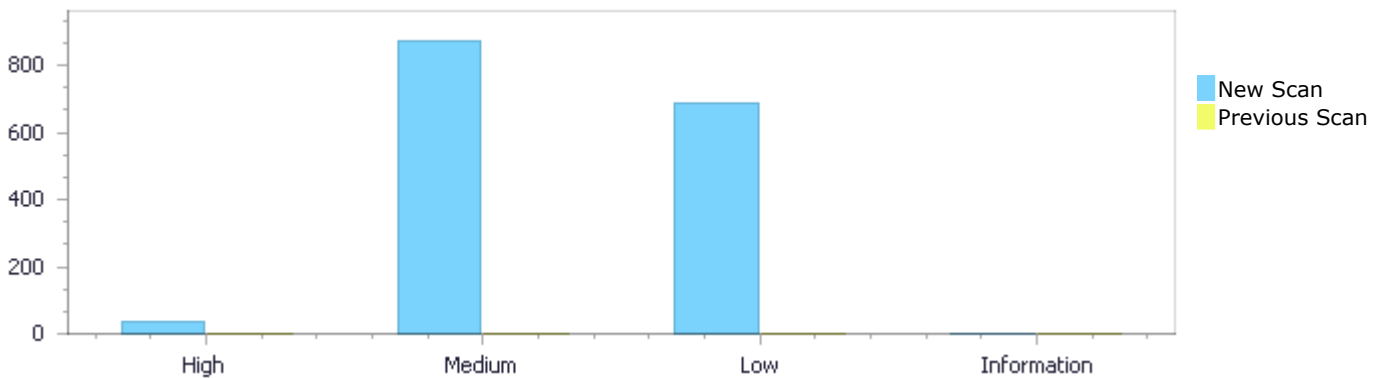
Scan Summary - Custom

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	38	874	688	0	1,600
Recurrent Issues	0	0	0	0	0
Total	38	874	688	0	1,600

Fixed Issues	0	0	0	0	0
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Results Distribution By State

	High	Medium	Low	Information	Total
Confirmed	0	0	0	0	0
Not Exploitable	0	0	0	0	0
To Verify	38	874	688	0	1,600
Urgent	0	0	0	0	0
Proposed Not Exploitable	0	0	0	0	0
Total	38	874	688	0	1,600

Result Summary

Vulnerability Type	Occurrences	Severity
Buffer Overflow OutOfBound	29	High
Buffer Overflow StrcpyStrcat	3	High
Off by One Error in Arrays	3	High
CGI Stored XSS	2	High
Buffer Overflow LongString	1	High

Dangerous Functions	313	Medium
Buffer Overflow boundcpy WrongSizeParam	156	Medium
MemoryFree on StackVariable	147	Medium
Use of Zero Initialized Pointer	75	Medium
Memory Leak	45	Medium
Wrong Size t Allocation	33	Medium
Integer Overflow	25	Medium
Double Free	21	Medium
Use of Uninitialized Variable	21	Medium
Use of Uninitialized Pointer	19	Medium
Heap Inspection	7	Medium
Divide By Zero	4	Medium
Char Overflow	3	Medium
Path Traversal	3	Medium
Buffer Overflow AddressOfLocalVarReturned	2	Medium
NULL Pointer Dereference	166	Low
Improper Resource Access Authorization	151	Low
Unchecked Return Value	102	Low
Use of Sizeof On a Pointer Type	52	Low
Use of Obsolete Functions	47	Low
Exposure of System Data to Unauthorized Control Sphere	39	Low
Incorrect Permission Assignment For Critical Resources	37	Low
TOCTOU	27	Low
Sizeof Pointer Argument	24	Low
Unchecked Array Index	16	Low
Inconsistent Implementations	6	Low
Privacy Violation	6	Low
Arithmenic Operation On Boolean	4	Low
Heuristic 2nd Order Buffer Overflow read	3	Low
Potential Off by One Error in Loops	3	Low
Potential Precision Problem	2	Low
Information Exposure Through Comments	1	Low
Insecure Temporary File	1	Low
Reliance on DNS Lookups in a Decision	1	Low

10 Most Vulnerable Files

High and Medium Vulnerabilities

File Name	Issues Found
freebsd-src-2/test_main.c	100
freebsd-src-2/protocol.c	68
freebsd-src-2/scp.c	67
freebsd-src-2/wlan_sys.c	49
freebsd-src-2/buffer.c	37
freebsd-src-2/rtsol.c	31
freebsd-src-2/X86_64.cpp	31
freebsd-src-2/cachedump.c	30
freebsd-src-2/rec_layer_d1.c	29
freebsd-src-2/ext2_extents.c	28

Scan Results Details

Buffer Overflow OutOfBound

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow OutOfBound 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 OutOfBound\Path 1:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=8
Status	New

The size of the buffer used by response in cp, at line 2057 of freebsd-src-2/scp.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that response passes to cp, at line 2057 of freebsd-src-2/scp.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	2080	2080
Object	cp	cp

Code Snippet

File Name freebsd-src-2/scp.c
Method response(void)

```
....
2080.                cp[-1] = '\0';
```

Buffer Overflow OutOfBound\Path 2:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=9
Status	New

The size of the buffer used by bwi_rf_get_gains in i, at line 373 of freebsd-src-2/bwirf.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that bwi_rf_get_gains passes to save_rf, at line 373 of freebsd-src-2/bwirf.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c

Line	391	505
Object	save_rf	i

Code Snippet

File Name frebsd-src-2/bwrf.c

Method bwi_rf_get_gains(struct bwi_mac *mac)

```
....
391.             uint16_t save_rf[SAVE_RF_MAX];
....
505.             RF_WRITE(mac, save_rf_regs[i], save_rf[i]);
```

Buffer Overflow OutOfBound\Path 3:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=10>

Status New

The size of the buffer used by bwi_rf_get_gains in i, at line 373 of frebsd-src-2/bwrf.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that bwi_rf_get_gains passes to save_rf, at line 373 of frebsd-src-2/bwrf.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/bwrf.c	frebsd-src-2/bwrf.c
Line	391	403
Object	save_rf	i

Code Snippet

File Name frebsd-src-2/bwrf.c

Method bwi_rf_get_gains(struct bwi_mac *mac)

```
....
391.             uint16_t save_rf[SAVE_RF_MAX];
....
403.             save_rf[i] = RF_READ(mac, save_rf_regs[i]);
```

Buffer Overflow OutOfBound\Path 4:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=11>

Status New

The size of the buffer used by bwi_rf_get_gains in i, at line 373 of frebsd-src-2/bwrf.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that bwi_rf_get_gains passes to save_rf_regs, at line 373 of frebsd-src-2/bwrf.c, to overwrite the target buffer.

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

File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	378	505
Object	save_rf_regs	i

Code Snippet

File Name freebsd-src-2/bwirf.c

Method bwi_rf_get_gains(struct bwi_mac *mac)

```
....  
378.         static const uint16_t save_rf_regs[SAVE_RF_MAX] =  
....  
505.         RF_WRITE(mac, save_rf_regs[i], save_rf[i]);
```

Buffer Overflow OutOfBound\Path 5:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=12>

Status New

The size of the buffer used by bwi_rf_get_gains in i, at line 373 of freebsd-src-2/bwirf.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that bwi_rf_get_gains passes to save_rf_regs, at line 373 of freebsd-src-2/bwirf.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	378	403
Object	save_rf_regs	i

Code Snippet

File Name freebsd-src-2/bwirf.c

Method bwi_rf_get_gains(struct bwi_mac *mac)

```
....  
378.         static const uint16_t save_rf_regs[SAVE_RF_MAX] =  
....  
403.         save_rf[i] = RF_READ(mac, save_rf_regs[i]);
```

Buffer Overflow OutOfBound\Path 6:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=13>

Status New

The size of the buffer used by bwi_rf_get_gains in i, at line 373 of freebsd-src-2/bwirf.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that bwi_rf_get_gains passes to save_rf_regs, at line 373 of freebsd-src-2/bwirf.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwif.c	freebsd-src-2/bwif.c
Line	378	403
Object	save_rf_regs	i

Code Snippet

File Name freebsd-src-2/bwif.c
Method bwi_rf_get_gains(struct bwi_mac *mac)

```
....  
378.         static const uint16_t save_rf_regs[SAVE_RF_MAX] =  
....  
403.         save_rf[i] = RF_READ(mac, save_rf_regs[i]);
```

Buffer Overflow OutOfBound\Path 7:

Severity High
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=14>
Status New

The size of the buffer used by bwi_rf_get_gains in i, at line 373 of freebsd-src-2/bwif.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that bwi_rf_get_gains passes to save_rf_regs, at line 373 of freebsd-src-2/bwif.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwif.c	freebsd-src-2/bwif.c
Line	378	505
Object	save_rf_regs	i

Code Snippet

File Name freebsd-src-2/bwif.c
Method bwi_rf_get_gains(struct bwi_mac *mac)

```
....  
378.         static const uint16_t save_rf_regs[SAVE_RF_MAX] =  
....  
505.         RF_WRITE(mac, save_rf_regs[i], save_rf[i]);
```

Buffer Overflow OutOfBound\Path 8:

Severity High
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=15>
Status New

The size of the buffer used by bwi_rf_set_nrssi_ofs_11g in i, at line 1750 of freebsd-src-2/bwif.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source

buffer that `bwi_rf_set_nrssi_ofs_11g` passes to `save_rf`, at line 1750 of `freebsd-src-2/bwirf.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1769	1881
Object	save_rf	i

Code Snippet

File Name freebsd-src-2/bwirf.c

Method `bwi_rf_set_nrssi_ofs_11g(struct bwi_mac *mac)`

```
....
1769.         uint16_t save_rf[SAVE_RF_MAX];
....
1881.         RF_WRITE(mac, save_rf_regs[i], save_rf[i]);
```

Buffer Overflow OutOfBound\Path 9:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=16>

Status New

The size of the buffer used by `bwi_rf_set_nrssi_ofs_11g` in `i`, at line 1750 of `freebsd-src-2/bwirf.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `bwi_rf_set_nrssi_ofs_11g` passes to `save_rf`, at line 1750 of `freebsd-src-2/bwirf.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1769	1779
Object	save_rf	i

Code Snippet

File Name freebsd-src-2/bwirf.c

Method `bwi_rf_set_nrssi_ofs_11g(struct bwi_mac *mac)`

```
....
1769.         uint16_t save_rf[SAVE_RF_MAX];
....
1779.         save_rf[i] = RF_READ(mac, save_rf_regs[i]);
```

Buffer Overflow OutOfBound\Path 10:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=17>

Status New

The size of the buffer used by `bwi_rf_set_nrssi_ofs_11g` in `i`, at line 1750 of `freebsd-src-2/bwirf.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `bwi_rf_set_nrssi_ofs_11g` passes to `save_rf_regs`, at line 1750 of `freebsd-src-2/bwirf.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1756	1881
Object	save_rf_regs	i

Code Snippet

File Name freebsd-src-2/bwirf.c

Method `bwi_rf_set_nrssi_ofs_11g(struct bwi_mac *mac)`

```
....
1756.         static const uint16_t save_rf_regs[SAVE_RF_MAX] =
....
1881.         RF_WRITE(mac, save_rf_regs[i], save_rf[i]);
```

Buffer Overflow OutOfBound\Path 11:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=18>

Status New

The size of the buffer used by `bwi_rf_set_nrssi_ofs_11g` in `i`, at line 1750 of `freebsd-src-2/bwirf.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `bwi_rf_set_nrssi_ofs_11g` passes to `save_rf_regs`, at line 1750 of `freebsd-src-2/bwirf.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1756	1779
Object	save_rf_regs	i

Code Snippet

File Name freebsd-src-2/bwirf.c

Method `bwi_rf_set_nrssi_ofs_11g(struct bwi_mac *mac)`

```
....
1756.         static const uint16_t save_rf_regs[SAVE_RF_MAX] =
....
1779.         save_rf[i] = RF_READ(mac, save_rf_regs[i]);
```

Buffer Overflow OutOfBound\Path 12:

Severity High

Result State To Verify

Online Results <http://WIN->

[BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=19](http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=19)

Status New

The size of the buffer used by `bwi_rf_set_nrssi_ofs_11g` in `i`, at line 1750 of `freebsd-src-2/bwirf.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `bwi_rf_set_nrssi_ofs_11g` passes to `save_rf_regs`, at line 1750 of `freebsd-src-2/bwirf.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1756	1779
Object	save_rf_regs	i

Code Snippet

File Name freebsd-src-2/bwirf.c

Method `bwi_rf_set_nrssi_ofs_11g(struct bwi_mac *mac)`

```
....
1756.         static const uint16_t save_rf_regs[SAVE_RF_MAX] =
....
1779.         save_rf[i] = RF_READ(mac, save_rf_regs[i]);
```

Buffer Overflow OutOfBound\Path 13:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=20>

Status New

The size of the buffer used by `bwi_rf_set_nrssi_ofs_11g` in `i`, at line 1750 of `freebsd-src-2/bwirf.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `bwi_rf_set_nrssi_ofs_11g` passes to `save_rf_regs`, at line 1750 of `freebsd-src-2/bwirf.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1756	1881
Object	save_rf_regs	i

Code Snippet

File Name freebsd-src-2/bwirf.c

Method `bwi_rf_set_nrssi_ofs_11g(struct bwi_mac *mac)`

```
....
1756.         static const uint16_t save_rf_regs[SAVE_RF_MAX] =
....
1881.         RF_WRITE(mac, save_rf_regs[i], save_rf[i]);
```

Buffer Overflow OutOfBound\Path 14:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=21
Status	New

The size of the buffer used by `fcntl_getlock_pids` in `l_pid`, at line 854 of `freebsd-src-2/t_vnops.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `fcntl_getlock_pids` passes to `pid`, at line 854 of `freebsd-src-2/t_vnops.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freebsd-src-2/t_vnops.c</code>	<code>freebsd-src-2/t_vnops.c</code>
Line	870	927
Object	<code>pid</code>	<code>l_pid</code>

Code Snippet

File Name `freebsd-src-2/t_vnops.c`
Method `fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)`

```
....  
870.         pid_t pid[5];  
....  
927.         result[nlocks].l_pid = pid[i];
```

Buffer Overflow OutOfBound\Path 15:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=22
Status	New

The size of the buffer used by `fcntl_getlock_pids` in `nlocks`, at line 854 of `freebsd-src-2/t_vnops.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `fcntl_getlock_pids` passes to `pid`, at line 854 of `freebsd-src-2/t_vnops.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freebsd-src-2/t_vnops.c</code>	<code>freebsd-src-2/t_vnops.c</code>
Line	870	926
Object	<code>pid</code>	<code>nlocks</code>

Code Snippet

File Name `freebsd-src-2/t_vnops.c`
Method `fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)`

```
.....
870.         pid_t pid[5];
.....
926.                     result[nlocks] = lock[i];
```

Buffer Overflow OutOfBound\Path 16:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=23
Status	New

The size of the buffer used by `fcntl_getlock_pids` in `l_pid`, at line 854 of `freebsd-src-2/t_vnops.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `fcntl_getlock_pids` passes to `fd`, at line 854 of `freebsd-src-2/t_vnops.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freebsd-src-2/t_vnops.c</code>	<code>freebsd-src-2/t_vnops.c</code>
Line	869	927
Object	<code>fd</code>	<code>l_pid</code>

Code Snippet

File Name `freebsd-src-2/t_vnops.c`
Method `fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)`

```
.....
869.         int fd[5];
.....
927.                     result[nlocks].l_pid = pid[i];
```

Buffer Overflow OutOfBound\Path 17:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=24
Status	New

The size of the buffer used by `fcntl_getlock_pids` in `nlocks`, at line 854 of `freebsd-src-2/t_vnops.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `fcntl_getlock_pids` passes to `fd`, at line 854 of `freebsd-src-2/t_vnops.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freebsd-src-2/t_vnops.c</code>	<code>freebsd-src-2/t_vnops.c</code>
Line	869	926
Object	<code>fd</code>	<code>nlocks</code>

Code Snippet

File Name frebsd-src-2/t_vnops.c

Method fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)

```
....
869.             int fd[5];
....
926.                                     result[nlocks] = lock[i];
```

Buffer Overflow OutOfBound\Path 18:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=25>

Status New

The size of the buffer used by fcntl_getlock_pids in l_pid, at line 854 of frebsd-src-2/t_vnops.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that fcntl_getlock_pids passes to lock, at line 854 of frebsd-src-2/t_vnops.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/t_vnops.c	frebsd-src-2/t_vnops.c
Line	858	927
Object	lock	l_pid

Code Snippet

File Name frebsd-src-2/t_vnops.c

Method fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)

```
....
858.             const struct flock lock[4] = {
....
927.                                     result[nlocks].l_pid = pid[i];
```

Buffer Overflow OutOfBound\Path 19:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=26>

Status New

The size of the buffer used by fcntl_getlock_pids in nlocks, at line 854 of frebsd-src-2/t_vnops.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that fcntl_getlock_pids passes to lock, at line 854 of frebsd-src-2/t_vnops.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/t_vnops.c	frebsd-src-2/t_vnops.c
Line	858	926

Object	lock	nlocks
--------	------	--------

Code Snippet

File Name frebsd-src-2/t_vnops.c
Method fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)

```
....
858.          const struct flock lock[4] = {
....
926.                      result[nlocks] = lock[i];
```

Buffer Overflow OutOfBound\Path 20:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=27
Status	New

The size of the buffer used by fcntl_getlock_pids in l_pid, at line 854 of frebsd-src-2/t_vnops.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that fcntl_getlock_pids passes to result, at line 854 of frebsd-src-2/t_vnops.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/t_vnops.c	frebsd-src-2/t_vnops.c
Line	866	927
Object	result	l_pid

Code Snippet

File Name frebsd-src-2/t_vnops.c
Method fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)

```
....
866.          struct flock result[5];
....
927.                      result[nlocks].l_pid = pid[i];
```

Buffer Overflow OutOfBound\Path 21:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=28
Status	New

The size of the buffer used by fcntl_getlock_pids in nlocks, at line 854 of frebsd-src-2/t_vnops.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that fcntl_getlock_pids passes to result, at line 854 of frebsd-src-2/t_vnops.c, to overwrite the target buffer.

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

File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	866	926
Object	result	nlocks

Code Snippet

File Name freebsd-src-2/t_vnops.c
Method fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)

```
....
866.         struct flock result[5];
....
926.         result[nlocks] = lock[i];
```

Buffer Overflow OutOfBound\Path 22:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=29
Status	New

The size of the buffer used by probe_adapters in i, at line 891 of freebsd-src-2/vga.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that video_adapter_t biosadapter[2]; passes to biosadapter, at line 192 of freebsd-src-2/vga.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	192	1167
Object	biosadapter	i

Code Snippet

File Name freebsd-src-2/vga.c
Method static video_adapter_t biosadapter[2];

```
....
192. static video_adapter_t biosadapter[2];
```

File Name freebsd-src-2/vga.c
Method probe_adapters(void)

```
....
1167.         clear_mode_map(&biosadapter[i], mode_map, M_VGA.CG320 +
1,
```

Buffer Overflow OutOfBound\Path 23:

Severity	High
Result State	To Verify

Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=30
Status	New

The size of the buffer used by probe_adapters in i, at line 891 of freebsd-src-2/vga.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that video_adapter_t biosadapter[2]; passes to biosadapter, at line 192 of freebsd-src-2/vga.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	192	1165
Object	biosadapter	i

Code Snippet

File Name freebsd-src-2/vga.c
Method static video_adapter_t biosadapter[2];

```
....
192. static video_adapter_t biosadapter[2];
```

File Name freebsd-src-2/vga.c
Method probe_adapters(void)

```
....
1165. if (!(biosadapter[i].va_flags & V_ADP_MODECHANGE))
```

Buffer Overflow OutOfBound\Path 24:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=31
Status	New

The size of the buffer used by probe_adapters in biosadapter, at line 891 of freebsd-src-2/vga.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that video_adapter_t biosadapter[2]; passes to biosadapter, at line 192 of freebsd-src-2/vga.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	192	1168
Object	biosadapter	biosadapter

Code Snippet

File Name freebsd-src-2/vga.c
Method static video_adapter_t biosadapter[2];

```
....
192.  static video_adapter_t  biosadapter[2];
```

File Name freebsd-src-2/vga.c
Method probe_adapters(void)

```
....
1168.                                     (biosadapter[i].va_flags & V_ADP_COLOR) ?
```

Buffer Overflow OutOfBound\Path 25:

Severity High
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=32>
Status New

The size of the buffer used by probe_adapters in i, at line 891 of freebsd-src-2/vga.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that video_adapter_t biosadapter[2]; passes to biosadapter, at line 192 of freebsd-src-2/vga.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	192	1170
Object	biosadapter	i

Code Snippet

File Name freebsd-src-2/vga.c
Method static video_adapter_t biosadapter[2];

```
....
192.  static video_adapter_t  biosadapter[2];
```

File Name freebsd-src-2/vga.c
Method probe_adapters(void)

```
....
1170.                                     if ((biosadapter[i].va_type == KD_VGA)
```

Buffer Overflow OutOfBound\Path 26:

Severity High
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=33>
Status New

The size of the buffer used by probe_adapters in i, at line 891 of freebsd-src-2/vga.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that video_adapter_t biosadapter[2]; passes to biosadapter, at line 192 of freebsd-src-2/vga.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	192	1171
Object	biosadapter	i

Code Snippet

File Name freebsd-src-2/vga.c
Method static video_adapter_t biosadapter[2];

```
....
192. static video_adapter_t biosadapter[2];
```

File Name freebsd-src-2/vga.c
Method probe_adapters(void)

```
....
1171. || (biosadapter[i].va_type == KD_EGA)) {
```

Buffer Overflow OutOfBound\Path 27:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=34
Status	New

The size of the buffer used by probe_adapters in va_io_base, at line 891 of freebsd-src-2/vga.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that video_adapter_t biosadapter[2]; passes to biosadapter, at line 192 of freebsd-src-2/vga.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	192	1172
Object	biosadapter	va_io_base

Code Snippet

File Name freebsd-src-2/vga.c
Method static video_adapter_t biosadapter[2];

```
....
192. static video_adapter_t biosadapter[2];
```

File Name freebsd-src-2/vga.c
Method probe_adapters(void)

```
....
1172.                biosadapter[i].va_io_base =
```

Buffer Overflow OutOfBound\Path 28:

Severity High
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=35>
Status New

The size of the buffer used by probe_adapters in i, at line 891 of freebsd-src-2/vga.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that video_adapter_t biosadapter[2]; passes to biosadapter, at line 192 of freebsd-src-2/vga.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	192	1173
Object	biosadapter	i

Code Snippet

File Name freebsd-src-2/vga.c
Method static video_adapter_t biosadapter[2];

```
....
192. static video_adapter_t biosadapter[2];
```

File Name freebsd-src-2/vga.c
Method probe_adapters(void)

```
....
1173.                (biosadapter[i].va_flags & V_ADP_COLOR) ?
```

Buffer Overflow OutOfBound\Path 29:

Severity High
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=36>
Status New

The size of the buffer used by probe_adapters in va_io_size, at line 891 of freebsd-src-2/vga.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that

video_adapter_t biosadapter[2]; passes to biosadapter, at line 192 of freebsd-src-2/vga.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	192	1175
Object	biosadapter	va_io_size

Code Snippet

File Name freebsd-src-2/vga.c

Method static video_adapter_t biosadapter[2];

```
....
192. static video_adapter_t biosadapter[2];
```

File Name freebsd-src-2/vga.c

Method probe_adapters(void)

```
....
1175. biosadapter[i].va_io_size = 32;
```

Off by One Error in Arrays

Query Path:

CPP\Cx\CPP Buffer Overflow\Off by One Error in Arrays Version:0

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows

NIST SP 800-53: SI-16 Memory Protection (P1)

OWASP Top 10 2017: A1-Injection

Description

Off by One Error in Arrays\Path 1:

Severity High

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=2>

Status New

The buffer allocated by sizeof in freebsd-src-2/telnet.c at line 1295 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1295	1295
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method unsigned char const * const slc_reply_eom = &slc_reply[sizeof(slc_reply)];

```
....  
1295. unsigned char const * const slc_reply_eom =  
&slc_reply[sizeof(slc_reply)];
```

Off by One Error in Arrays\Path 2:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=3
Status	New

The buffer allocated by sizeof in freebsd-src-2/respip.c at line 567 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	579	579
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/respip.c
Method rdata2sockaddr(const struct packed_rrset_data* rd, uint16_t rtype, size_t i,

```
....  
579. *addrlenp = sizeof(*sa4);
```

Off by One Error in Arrays\Path 3:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=4
Status	New

The buffer allocated by sizeof in freebsd-src-2/respip.c at line 567 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	588	588
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/respip.c
Method rdata2sockaddr(const struct packed_rrset_data* rd, uint16_t rtype, size_t i,

```
....
588.                *addrlenp = sizeof(*sa6);
```

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=1060098&projectid=60088&pathid=5
Status	New

The size of the buffer used by `realloc_strcat` in `new_str`, at line 189 of `frebsd-src-2/subst.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `realloc_strcat` passes to `str`, at line 189 of `frebsd-src-2/subst.c`, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/subst.c	frebsd-src-2/subst.c
Line	189	204
Object	str	new_str

Code Snippet

File Name frebsd-src-2/subst.c
 Method `realloc_strcat(char **str, const char *append)`

```
....
189. realloc_strcat(char **str, const char *append)
....
204.     strcpy(new_str + old_len, append);
```

Buffer Overflow StrcpyStrcat\Path 2:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=6
Status	New

The size of the buffer used by `realloc_strcat` in `BinaryExpr`, at line 189 of `frebsd-src-2/subst.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `realloc_strcat` passes to `str`, at line 189 of `frebsd-src-2/subst.c`, to overwrite the target buffer.

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

File	freebsd-src-2/subst.c	freebsd-src-2/subst.c
Line	189	204
Object	str	BinaryExpr

Code Snippet

File Name freebsd-src-2/subst.c
Method realloc_strcat(char **str, const char *append)

```
....
189. realloc_strcat(char **str, const char *append)
....
204. strcpy(new_str + old_len, append);
```

Buffer Overflow StrcpyStrcat\Path 3:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=7
Status	New

The size of the buffer used by lookup_simple in mountpath, at line 67 of freebsd-src-2/t_vnops.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that lookup_simple passes to mountpath, at line 67 of freebsd-src-2/t_vnops.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	67	72
Object	mountpath	mountpath

Code Snippet

File Name freebsd-src-2/t_vnops.c
Method lookup_simple(const atf_tc_t *tc, const char *mountpath)

```
....
67. lookup_simple(const atf_tc_t *tc, const char *mountpath)
....
72. strcpy(final, mountpath);
```

CGI Stored XSS

Query Path:

CPP\Cx\CPP High Risk\CGI Stored XSS Version:0

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.7 - Cross-site scripting (XSS)
OWASP Top 10 2013: A3-Cross-Site Scripting (XSS)
FISMA 2014: System And Information Integrity
NIST SP 800-53: SI-15 Information Output Filtering (P0)
OWASP Top 10 2017: A7-Cross-Site Scripting (XSS)

Description

CGI Stored XSS\Path 1:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=195
Status	New

Unvalidated DB output was found in line number 115 in freebsd-src-2/maketab.c file. A possible XSS exploitation was found in printf at line number 115.

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	138	170
Object	buf	printf

Code Snippet

File Name freebsd-src-2/maketab.c

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

```
....  
138.         while (fgets(buf, sizeof buf, fp) != NULL) {  
....  
170.             printf("\t\"%s\", \t/* %d */\n", name, tok);
```

CGI Stored XSS\Path 2:

Severity	High
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=196
Status	New

Unvalidated DB output was found in line number 115 in freebsd-src-2/maketab.c file. A possible XSS exploitation was found in printf at line number 115.

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	138	179
Object	buf	printf

Code Snippet

File Name freebsd-src-2/maketab.c

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

```
....  
138.         while (fgets(buf, sizeof buf, fp) != NULL) {  
....  
179.             printf("\t%s, \t/* %s */\n",
```

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=1060098&projectid=60088&pathid=1
Status	New

The size of the buffer used by rsource in vect, at line 1490 of freebsd-src-2/scp.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rsource passes to "%s/%s", at line 1490 of freebsd-src-2/scp.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1529	1530
Object	"%s/%s"	vect

Code Snippet

File Name freebsd-src-2/scp.c
Method rsource(char *name, struct stat *statp)

```
....
1529.          (void) snprintf(path, sizeof path, "%s/%s", name, dp-
>d_name);
1530.          vect[0] = path;
```

Dangerous Functions

Query Path:

CPP\Cx\CPP Medium Threat\Dangerous Functions Version:1

Categories

OWASP Top 10 2013: A9-Using Components with Known Vulnerabilities
OWASP Top 10 2017: A9-Using Components with Known Vulnerabilities

Description

Dangerous Functions\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=427
Status	New

The dangerous function, memcpy, was found in use at line 387 in freebsd-src-2/a_int.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/a_int.c	freebsd-src-2/a_int.c
Line	431	431
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/a_int.c

Method ASN1_INTEGER *d2i_ASN1_INTEGER(ASN1_INTEGER **a, const unsigned char **pp,

```
....  
431.         memcpy(s, p, (int)len);
```

Dangerous Functions\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=428>

Status New

The dangerous function, memcpy, was found in use at line 21 in freebsd-src-2/a_object.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/a_object.c	freebsd-src-2/a_object.c
Line	43	43
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/a_object.c

Method int i2d_ASN1_OBJECT(const ASN1_OBJECT *a, unsigned char **pp)

```
....  
43.         memcpy(p, a->data, a->length);
```

Dangerous Functions\Path 3:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=429>

Status New

The dangerous function, memcpy, was found in use at line 239 in freebsd-src-2/a_object.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/a_object.c	freebsd-src-2/a_object.c
Line	312	312
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/a_object.c

Method ASN1_OBJECT *c2i_ASN1_OBJECT(ASN1_OBJECT **a, const unsigned char **pp,

```
....  
312.      memcpy(data, p, length);
```

Dangerous Functions\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=430>

Status New

The dangerous function, memcpy, was found in use at line 809 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	837	837
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c

Method PRESERVE_PINNED(struct evbuffer *src, struct evbuffer_chain **first,

```
....  
837.      memcpy(tmp->buffer, chain->buffer + chain->misalign,
```

Dangerous Functions\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=431>

Status New

The dangerous function, memcpy, was found in use at line 1185 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

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

File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1226	1226
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c

Method evbuffer_copyout_from(struct evbuffer *buf, const struct evbuffer_ptr *pos,

```
....  
1226.                memcpy(data,
```

Dangerous Functions\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=432>

Status New

The dangerous function, memcpy, was found in use at line 1185 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1241	1241
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c

Method evbuffer_copyout_from(struct evbuffer *buf, const struct evbuffer_ptr *pos,

```
....  
1241.                memcpy(data, chain->buffer + chain->misalign +  
pos_in_chain,
```

Dangerous Functions\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=433>

Status New

The dangerous function, memcpy, was found in use at line 1345 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c

Line	1419	1419
Object	memcpy	memcpy

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_pullup(struct evbuffer *buf, ev_ssize_t size)

```
....
1419.             memcpy(buffer, chain->buffer + chain->misalign, chain-
>off);
```

Dangerous Functions\Path 8:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=434>

Status New

The dangerous function, memcpy, was found in use at line 1345 in frebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	1431	1431
Object	memcpy	memcpy

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_pullup(struct evbuffer *buf, ev_ssize_t size)

```
....
1431.             memcpy(buffer, chain->buffer + chain->misalign, size);
```

Dangerous Functions\Path 9:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=435>

Status New

The dangerous function, memcpy, was found in use at line 1590 in frebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	1609	1609

Object	memcpy	memcpy
--------	--------	--------

Code Snippet

File Name freebsd-src-2/buffer.c

Method evbuffer_search_eol(struct evbuffer *buffer,

```
....  
1609.                   memcpy(&it, start, sizeof(it));
```

Dangerous Functions\Path 10:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=436>

Status New

The dangerous function, memcpy, was found in use at line 1590 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1622	1622
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c

Method evbuffer_search_eol(struct evbuffer *buffer,

```
....  
1622.                   memcpy(&it2, &it, sizeof(it));
```

Dangerous Functions\Path 11:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=437>

Status New

The dangerous function, memcpy, was found in use at line 1590 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1644	1644
Object	memcpy	memcpy

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_search_eol(struct evbuffer *buffer,

```
....  
1644.                   memcpy(&it2, &it, sizeof(it));
```

Dangerous Functions\Path 12:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=438>

Status New

The dangerous function, memcpy, was found in use at line 1590 in frebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	1648	1648
Object	memcpy	memcpy

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_search_eol(struct evbuffer *buffer,

```
....  
1648.                   memcpy(&it, &it2, sizeof(it));
```

Dangerous Functions\Path 13:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=439>

Status New

The dangerous function, memcpy, was found in use at line 1723 in frebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	1763	1763
Object	memcpy	memcpy

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_add(struct evbuffer *buf, const void *data_in, size_t datlen)

```
.....  
1763.                memcpy(chain->buffer + chain->misalign + chain->  
>off,
```

Dangerous Functions\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=440
Status	New

The dangerous function, memcpy, was found in use at line 1723 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1774	1774
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_add(struct evbuffer *buf, const void *data_in, size_t datlen)

```
.....  
1774.                memcpy(chain->buffer + chain->off, data,  
datlen);
```

Dangerous Functions\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=441
Status	New

The dangerous function, memcpy, was found in use at line 1723 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1796	1796
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_add(struct evbuffer *buf, const void *data_in, size_t datlen)

```
.....  
1796.                memcpy(chain->buffer + chain->misalign + chain->off,
```

Dangerous Functions\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=442
Status	New

The dangerous function, memcpy, was found in use at line 1723 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1806	1806
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_add(struct evbuffer *buf, const void *data_in, size_t datlen)

```
.....  
1806.                memcpy(tmp->buffer, data, datlen);
```

Dangerous Functions\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=443
Status	New

The dangerous function, memcpy, was found in use at line 1820 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1856	1856
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_prepend(struct evbuffer *buf, const void *data, size_t datlen)

```
.....  
1856.                                memcpy(chain->buffer + chain->misalign - datlen,
```

Dangerous Functions\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=444
Status	New

The dangerous function, memcpy, was found in use at line 1820 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1865	1865
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_prepend(struct evbuffer *buf, const void *data, size_t datlen)

```
.....  
1865.                                memcpy(chain->buffer,
```

Dangerous Functions\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=445
Status	New

The dangerous function, memcpy, was found in use at line 1820 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1889	1889
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_prepend(struct evbuffer *buf, const void *data, size_t datlen)

```
.....  
1889.          memcpy(tmp->buffer + tmp->misalign, data, datlen);
```

Dangerous Functions\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=446
Status	New

The dangerous function, memcpy, was found in use at line 1928 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	2012	2012
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_expand_singlechain(struct evbuffer *buf, size_t datlen)

```
.....  
2012.          memcpy(tmp->buffer, chain->buffer + chain->misalign,
```

Dangerous Functions\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=447
Status	New

The dangerous function, memcpy, was found in use at line 2708 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	2718	2718
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_search_range(struct evbuffer *buffer, const char *what, size_t len, const struct evbuffer_ptr *start, const struct evbuffer_ptr *end)

```
.....  
2718.                memcpy(&pos, start, sizeof(pos));
```

Dangerous Functions\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=448
Status	New

The dangerous function, memcpy, was found in use at line 2831 in freebsd-src-2/buffer.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	2863	2863
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_add_vprintf(struct evbuffer *buf, const char *fmt, va_list ap)

```
.....  
2863.                va_copy(aq, ap);
```

Dangerous Functions\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=449
Status	New

The dangerous function, memcpy, was found in use at line 85 in freebsd-src-2/cap_sendmsg.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/cap_sendmsg.c	freebsd-src-2/cap_sendmsg.c
Line	120	120
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/cap_sendmsg.c
Method sendpacket(int sock, struct sockaddr_in6 *dst, uint32_t ifindex, int hoplimit,

```
.....  
120.          memcpy(CMSG_DATA(cm), &hoplimit, sizeof(int));
```

Dangerous Functions\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=450
Status	New

The dangerous function, memcpy, was found in use at line 388 in freebsd-src-2/cut.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c
Line	406	406
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/cut.c
Method f_cut(FILE *fp, const char *fname)

```
.....  
406.          memcpy(mlbuf, lbuf, lbuflen);
```

Dangerous Functions\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=451
Status	New

The dangerous function, memcpy, was found in use at line 287 in freebsd-src-2/d1_lib.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/d1_lib.c	freebsd-src-2/d1_lib.c
Line	308	308
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/d1_lib.c
Method struct timeval *dtls1_get_timeout(SSL *s, struct timeval *timeleft)

```
.....
308.         memcpy(timeleft, &(s->d1->next_timeout), sizeof(struct
timeval));
```

Dangerous Functions\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=452
Status	New

The dangerous function, memcpy, was found in use at line 446 in freebsd-src-2/d1_lib.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/d1_lib.c	freebsd-src-2/d1_lib.c
Line	776	776
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/d1_lib.c
Method int DTLSv1_listen(SSL *s, BIO_ADDR *client)

```
.....
776.         memcpy(&wbuf[DTLS1_RT_HEADER_LENGTH + 1],
```

Dangerous Functions\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=453
Status	New

The dangerous function, memcpy, was found in use at line 207 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	240	240
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_init_key(EVP_CIPHER_CTX *ctx, const unsigned char *key,


```
.....  
240.                memcpy(gctx->iv, iv, gctx->ivlen);
```

Dangerous Functions\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=454
Status	New

The dangerous function, memcpy, was found in use at line 247 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	284	284
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
.....  
284.                memcpy(EVP_CIPHER_CTX_buf_noconst(c), ptr, arg);
```

Dangerous Functions\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=455
Status	New

The dangerous function, memcpy, was found in use at line 247 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	292	292
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
.....  
292.          memcpy(ptr, EVP_CIPHER_CTX_buf_noconst(c), arg);
```

Dangerous Functions\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=456
Status	New

The dangerous function, memcpy, was found in use at line 247 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	298	298
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
.....  
298.          memcpy(gctx->iv, ptr, gctx->ivlen);
```

Dangerous Functions\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=457
Status	New

The dangerous function, memcpy, was found in use at line 247 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	309	309
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
....  
309.          memcpy(gctx->iv, ptr, arg);
```

Dangerous Functions\Path 32:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=458
Status	New

The dangerous function, memcpy, was found in use at line 247 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	322	322
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
....  
322.          memcpy(ptr, gctx->iv + gctx->ivlen - arg, arg);
```

Dangerous Functions\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=459
Status	New

The dangerous function, memcpy, was found in use at line 247 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	335	335
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
....  
335.          memcpy(gctx->iv + gctx->ivlen - arg, ptr, arg);
```

Dangerous Functions\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=460
Status	New

The dangerous function, memcpy, was found in use at line 247 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	344	344
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
....  
344.          memcpy(EVP_CIPHER_CTX_buf_noconst(c), ptr, arg);
```

Dangerous Functions\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=461
Status	New

The dangerous function, memcpy, was found in use at line 247 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	382	382
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_gcm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
.....  
382.                memcpy(gctx_out->iv, gctx->iv, gctx->ivlen);
```

Dangerous Functions\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=462
Status	New

The dangerous function, memcpy, was found in use at line 503 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	525	525
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_ccm_init_key(EVP_CIPHER_CTX *ctx, const unsigned char *key,

```
.....  
525.                memcpy(EVP_CIPHER_CTX_iv_noconst(ctx), iv, 15 - cctx->L);
```

Dangerous Functions\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=463
Status	New

The dangerous function, memcpy, was found in use at line 531 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	550	550
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_ccm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
.....  
550.          memcpy(EVP_CIPHER_CTX_buf_noconst(c), ptr, arg);
```

Dangerous Functions\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=464
Status	New

The dangerous function, memcpy, was found in use at line 531 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	577	577
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_ccm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
.....  
577.          memcpy(EVP_CIPHER_CTX_iv_noconst(c), ptr, arg);
```

Dangerous Functions\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=465
Status	New

The dangerous function, memcpy, was found in use at line 531 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	599	599
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_ccm_ctrl(EVP_CIPHER_CTX *c, int type, int arg, void *ptr)

```
.....  
599.                memcpy(EVP_CIPHER_CTX_buf_noconst(c), ptr, arg);
```

Dangerous Functions\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=466
Status	New

The dangerous function, memcpy, was found in use at line 631 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	642	642
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_ccm_tls_cipher(EVP_CIPHER_CTX *ctx, unsigned char *out,

```
.....  
642.                memcpy(out, EVP_CIPHER_CTX_buf_noconst(ctx),
```

Dangerous Functions\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=467
Status	New

The dangerous function, memcpy, was found in use at line 631 in freebsd-src-2/e_aria.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	645	645
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_ccm_tls_cipher(EVP_CIPHER_CTX *ctx, unsigned char *out,

```
....
645.         memcpy(EVP_CIPHER_CTX_iv_noconst(ctx) +
EVP_CCM_TLS_FIXED_IV_LEN, in,
```

Dangerous Functions\Path 42:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=468
Status	New

The dangerous function, memcpy, was found in use at line 65 in freebsd-src-2/e_rc4_hmac_md5.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_rc4_hmac_md5.c	freebsd-src-2/e_rc4_hmac_md5.c
Line	112	112
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_rc4_hmac_md5.c
Method static int rc4_hmac_md5_cipher(EVP_CIPHER_CTX *ctx, unsigned char *out,

```
....
112.         memcpy(out + rc4_off, in + rc4_off, plen -
rc4_off);
```

Dangerous Functions\Path 43:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=469
Status	New

The dangerous function, memcpy, was found in use at line 176 in freebsd-src-2/e_rc4_hmac_md5.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/e_rc4_hmac_md5.c	freebsd-src-2/e_rc4_hmac_md5.c
Line	194	194
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/e_rc4_hmac_md5.c
Method static int rc4_hmac_md5_ctrl(EVP_CIPHER_CTX *ctx, int type, int arg,


```
.....  
194.                memcpy(hmac_key, ptr, arg);
```

Dangerous Functions\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=470
Status	New

The dangerous function, memcpy, was found in use at line 550 in freebsd-src-2/ext2_extents.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	558	558
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_fill_path_bdata(struct ext4_extent_path *path,

```
.....  
558.                memcpy(path->ep_data, bp->b_data, bp->b_bufsize);
```

Dangerous Functions\Path 45:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=471
Status	New

The dangerous function, memcpy, was found in use at line 565 in freebsd-src-2/ext2_extents.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	571	571
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_fill_path_buf(struct ext4_extent_path *path, struct buf *bp)

```
....  
571.         memcpy(bp->b_data, path->ep_data, bp->b_bufsize);
```

Dangerous Functions\Path 46:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=472
Status	New

The dangerous function, memcpy, was found in use at line 159 in freebsd-src-2/http-server.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	236	236
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/http-server.c
Method send_document_cb(struct evhttp_request *req, void *arg)

```
....  
236.         memcpy(pattern, whole_path, dirlen);
```

Dangerous Functions\Path 47:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=473
Status	New

The dangerous function, memcpy, was found in use at line 331 in freebsd-src-2/init.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/init.c	freebsd-src-2/init.c
Line	340	340
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/init.c
Method mt7615_regd_notifier(struct wiphy *wiphy,

```
.....
340.         memcpy(dev->mt76.alpha2, request->alpha2, sizeof(dev-
>mt76.alpha2));
```

Dangerous Functions\Path 48:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=474
Status	New

The dangerous function, memcpy, was found in use at line 446 in freebsd-src-2/init.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/init.c	freebsd-src-2/init.c
Line	487	487
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/init.c
Method int mt7615_register_ext_phy(struct mt7615_dev *dev)

```
.....
487.         memcpy(mphy->macaddr, dev->mt76.eeprom.data +
MT_EE_MAC_ADDR,
```

Dangerous Functions\Path 49:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=475
Status	New

The dangerous function, memcpy, was found in use at line 174 in freebsd-src-2/ips_commands.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/ips_commands.c	freebsd-src-2/ips_commands.c
Line	202	202
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/ips_commands.c
Method static void ips_adapter_info_callback(void *cmdptr, bus_dma_segment_t *segments, int segnum, int error)

```
....
202.         memcpy(&(sc->adapter_info), command->data_buffer,
IPS_ADAPTER_INFO_LEN);
```

Dangerous Functions\Path 50:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=476
Status	New

The dangerous function, memcpy, was found in use at line 273 in freebsd-src-2/ips_commands.c file. Such functions may expose information and allow an attacker to get full control over the host machine.

	Source	Destination
File	freebsd-src-2/ips_commands.c	freebsd-src-2/ips_commands.c
Line	304	304
Object	memcpy	memcpy

Code Snippet

File Name freebsd-src-2/ips_commands.c
Method static void ips_drive_info_callback(void *cmdptr, bus_dma_segment_t *segments,int segnum, int error)

```
....
304.         memcpy(sc->drives, driveinfo->drives, sizeof(ips_drive_t) *
8);
```

Buffer Overflow boundcpy WrongSizeParam

Query Path:

CPP\Cx\CPP Buffer Overflow\Buffer Overflow boundcpy WrongSizeParam Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows
OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow boundcpy WrongSizeParam\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=39
Status	New

The size of the buffer used by evbuffer_search_eol in it, at line 1590 of freebsd-src-2/buffer.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that evbuffer_search_eol passes to it, at line 1590 of freebsd-src-2/buffer.c, to overwrite the target buffer.

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

File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1622	1622
Object	it	it

Code Snippet

File Name freebsd-src-2/buffer.c

Method evbuffer_search_eol(struct evbuffer *buffer,

```
....  
1622.             memcpy(&it2, &it, sizeof(it));
```

Buffer Overflow boundcpy WrongSizeParam\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=40>

Status New

The size of the buffer used by evbuffer_search_eol in it, at line 1590 of freebsd-src-2/buffer.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that evbuffer_search_eol passes to it, at line 1590 of freebsd-src-2/buffer.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1644	1644
Object	it	it

Code Snippet

File Name freebsd-src-2/buffer.c

Method evbuffer_search_eol(struct evbuffer *buffer,

```
....  
1644.             memcpy(&it2, &it, sizeof(it));
```

Buffer Overflow boundcpy WrongSizeParam\Path 3:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=41>

Status New

The size of the buffer used by evbuffer_add_vprintf in va_list, at line 2831 of freebsd-src-2/buffer.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that evbuffer_add_vprintf passes to va_list, at line 2831 of freebsd-src-2/buffer.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c

Line	2863	2863
Object	va_list	va_list

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_add_vprintf(struct evbuffer *buf, const char *fmt, va_list ap)

```
....  
2863.                   va_copy(aq, ap);
```

Buffer Overflow boundcpy WrongSizeParam\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=42>

Status New

The size of the buffer used by sendpacket in int, at line 85 of freebsd-src-2/cap_sendmsg.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that sendpacket passes to int, at line 85 of freebsd-src-2/cap_sendmsg.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/cap_sendmsg.c	freebsd-src-2/cap_sendmsg.c
Line	120	120
Object	int	int

Code Snippet

File Name freebsd-src-2/cap_sendmsg.c

Method sendpacket(int sock, struct sockaddr_in6 *dst, uint32_t ifindex, int hoplimit,

```
....  
120.                   memcpy(MSG_DATA(cm), &hoplimit, sizeof(int));
```

Buffer Overflow boundcpy WrongSizeParam\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=43>

Status New

The size of the buffer used by *dtls1_get_timeout in timeval, at line 287 of freebsd-src-2/d1_lib.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that *dtls1_get_timeout passes to timeval, at line 287 of freebsd-src-2/d1_lib.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/d1_lib.c	freebsd-src-2/d1_lib.c
Line	308	308

Object	timeval	timeval
--------	---------	---------

Code Snippet

File Name frebsd-src-2/d1_lib.c

Method struct timeval *dtls1_get_timeout(SSL *s, struct timeval *timeleft)

```
....
308.          memcpy(timeleft, &(s->d1->next_timeout), sizeof(struct
timeval));
```

Buffer Overflow boundcpy WrongSizeParam\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=44>

Status New

The size of the buffer used by mt7615_regd_notifier in Namespace1527133530, at line 331 of frebsd-src-2/init.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that mt7615_regd_notifier passes to Namespace1527133530, at line 331 of frebsd-src-2/init.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/init.c	frebsd-src-2/init.c
Line	340	340
Object	Namespace1527133530	Namespace1527133530

Code Snippet

File Name frebsd-src-2/init.c

Method mt7615_regd_notifier(struct wiphy *wiphy,

```
....
340.          memcpy(dev->mt76.alpha2, request->alpha2, sizeof(dev-
>mt76.alpha2));
```

Buffer Overflow boundcpy WrongSizeParam\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=45>

Status New

The size of the buffer used by dtls1_reset_seq_numbers in ->, at line 1037 of frebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_reset_seq_numbers passes to ->, at line 1037 of frebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/rec_layer_d1.c	frebsd-src-2/rec_layer_d1.c

Line	1046	1046
Object	->	->

Code Snippet

File Name frebsd-src-2/rec_layer_d1.c
Method void dtls1_reset_seq_numbers(SSL *s, int rw)

```
....
1046.                sizeof(s->rlayer.d->bitmap));
```

Buffer Overflow boundcpy WrongSizeParam\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=46
Status	New

The size of the buffer used by dtls1_reset_seq_numbers in Namespace1423434742, at line 1037 of frebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_reset_seq_numbers passes to Namespace1423434742, at line 1037 of frebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/rec_layer_d1.c	frebsd-src-2/rec_layer_d1.c
Line	1057	1057
Object	Namespace1423434742	Namespace1423434742

Code Snippet

File Name frebsd-src-2/rec_layer_d1.c
Method void dtls1_reset_seq_numbers(SSL *s, int rw)

```
....
1057.                sizeof(s->rlayer.write_sequence));
```

Buffer Overflow boundcpy WrongSizeParam\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=47
Status	New

The size of the buffer used by DTLS_RECORD_LAYER_set_saved_w_epoch in ->, at line 101 of frebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that DTLS_RECORD_LAYER_set_saved_w_epoch passes to ->, at line 101 of frebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/rec_layer_d1.c	frebsd-src-2/rec_layer_d1.c

Line	105	105
Object	->	->

Code Snippet

File Name frebsd-src-2/rec_layer_d1.c

Method void DTLS_RECORD_LAYER_set_saved_w_epoch(RECORD_LAYER *rl, unsigned short e)

```
....  
105.                      rl->write_sequence, sizeof(rl->write_sequence));
```

Buffer Overflow boundcpy WrongSizeParam\Path 10:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=48>

Status New

The size of the buffer used by DTLS_RECORD_LAYER_set_saved_w_epoch in ->, at line 101 of frebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that DTLS_RECORD_LAYER_set_saved_w_epoch passes to ->, at line 101 of frebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/rec_layer_d1.c	frebsd-src-2/rec_layer_d1.c
Line	107	107
Object	->	->

Code Snippet

File Name frebsd-src-2/rec_layer_d1.c

Method void DTLS_RECORD_LAYER_set_saved_w_epoch(RECORD_LAYER *rl, unsigned short e)

```
....  
107.                      rl->d->last_write_sequence, sizeof(rl->  
>write_sequence));
```

Buffer Overflow boundcpy WrongSizeParam\Path 11:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=49>

Status New

The size of the buffer used by DTLS_RECORD_LAYER_set_saved_w_epoch in ->, at line 101 of frebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that DTLS_RECORD_LAYER_set_saved_w_epoch passes to ->, at line 101 of frebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/rec_layer_d1.c	freebsd-src-2/rec_layer_d1.c
Line	112	112
Object	->	->

Code Snippet

File Name freebsd-src-2/rec_layer_d1.c

Method void DTLS_RECORD_LAYER_set_saved_w_epoch(RECORD_LAYER *rl, unsigned short e)

```
....
112.                rl->d->curr_write_sequence, sizeof(rl-
>write_sequence));
```

Buffer Overflow boundcpy WrongSizeParam\Path 12:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=50>

Status New

The size of the buffer used by dtls1_copy_record in SSL3_BUFFER, at line 123 of freebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_copy_record passes to SSL3_BUFFER, at line 123 of freebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/rec_layer_d1.c	freebsd-src-2/rec_layer_d1.c
Line	133	133
Object	SSL3_BUFFER	SSL3_BUFFER

Code Snippet

File Name freebsd-src-2/rec_layer_d1.c

Method static int dtls1_copy_record(SSL *s, pitem *item)

```
....
133.                memcpy(&s->rlayer.rbuf, &(rdata->rbuf), sizeof(SSL3_BUFFER));
```

Buffer Overflow boundcpy WrongSizeParam\Path 13:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=51>

Status New

The size of the buffer used by dtls1_copy_record in SSL3_RECORD, at line 123 of freebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow

attack, using the source buffer that dtls1_copy_record passes to SSL3_RECORD, at line 123 of freebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/rec_layer_d1.c	freebsd-src-2/rec_layer_d1.c
Line	134	134
Object	SSL3_RECORD	SSL3_RECORD

Code Snippet

File Name freebsd-src-2/rec_layer_d1.c
Method static int dtls1_copy_record(SSL *s, pitem *item)

```
....  
134.      memcpy(&s->rlayer.rrec, &(rdata->rrec), sizeof(SSL3_RECORD));
```

Buffer Overflow boundcpy WrongSizeParam\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=52
Status	New

The size of the buffer used by dtls1_buffer_record in SSL3_BUFFER, at line 142 of freebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_buffer_record passes to SSL3_BUFFER, at line 142 of freebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/rec_layer_d1.c	freebsd-src-2/rec_layer_d1.c
Line	163	163
Object	SSL3_BUFFER	SSL3_BUFFER

Code Snippet

File Name freebsd-src-2/rec_layer_d1.c
Method int dtls1_buffer_record(SSL *s, record_pqueue *queue, unsigned char *priority)

```
....  
163.      memcpy(&(rdata->rbuf), &s->rlayer.rbuf, sizeof(SSL3_BUFFER));
```

Buffer Overflow boundcpy WrongSizeParam\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=53
Status	New

The size of the buffer used by dtls1_buffer_record in SSL3_RECORD, at line 142 of freebsd-src-2/rec_layer_d1.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow

attack, using the source buffer that dtls1_buffer_record passes to SSL3_RECORD, at line 142 of freebsd-src-2/rec_layer_d1.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/rec_layer_d1.c	freebsd-src-2/rec_layer_d1.c
Line	164	164
Object	SSL3_RECORD	SSL3_RECORD

Code Snippet

File Name freebsd-src-2/rec_layer_d1.c

Method int dtls1_buffer_record(SSL *s, record_pqueue *queue, unsigned char *priority)

```
....  
164.      memcpy(&(rdata->rrec), &s->rlayer.rrec, sizeof(SSL3_RECORD));
```

Buffer Overflow boundcpy WrongSizeParam\Path 16:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=54>

Status New

The size of the buffer used by rdata2sockaddr in ->, at line 567 of freebsd-src-2/respip.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rdata2sockaddr passes to ->, at line 567 of freebsd-src-2/respip.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	578	578
Object	->	->

Code Snippet

File Name freebsd-src-2/respip.c

Method rdata2sockaddr(const struct packed_rrset_data* rd, uint16_t rtype, size_t i,

```
....  
578.      sizeof(sa4->sin_addr));
```

Buffer Overflow boundcpy WrongSizeParam\Path 17:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=55>

Status New

The size of the buffer used by rdata2sockaddr in ->, at line 567 of freebsd-src-2/respip.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rdata2sockaddr passes to ->, at line 567 of freebsd-src-2/respip.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	587	587
Object	->	->

Code Snippet

File Name freebsd-src-2/respip.c

Method rdata2sockaddr(const struct packed_rrset_data* rd, uint16_t rtype, size_t i,

```
....
587.                sizeof(sa6->sin6_addr));
```

Buffer Overflow boundcpy WrongSizeParam\Path 18:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=56>

Status New

The size of the buffer used by rtsol_input in Namespace1278039934, at line 159 of freebsd-src-2/rtsol.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that rtsol_input passes to Namespace1278039934, at line 159 of freebsd-src-2/rtsol.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	352	352
Object	Namespace1278039934	Namespace1278039934

Code Snippet

File Name freebsd-src-2/rtsol.c

Method rtsol_input(int sock)

```
....
352.                sizeof(rai->rai_saddr.sin6_addr));
```

Buffer Overflow boundcpy WrongSizeParam\Path 19:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=57>

Status New

The size of the buffer used by session_setup_x11fwd in in_addr, at line 2589 of freebsd-src-2/session.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that session_setup_x11fwd passes to in_addr, at line 2589 of freebsd-src-2/session.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	2650	2650
Object	in_addr	in_addr

Code Snippet

File Name freebsd-src-2/session.c

Method session_setup_x11fwd(struct ssh *ssh, Session *s)

```
....  
2650.             memcpy(&my_addr, he->h_addr_list[0], sizeof(struct  
in_addr));
```

Buffer Overflow boundcpy WrongSizeParam\Path 20:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=58>

Status New

The size of the buffer used by dtls1_reassemble_fragment in msg_hdr, at line 531 of freebsd-src-2/statem_dtls.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_reassemble_fragment passes to msg_hdr, at line 531 of freebsd-src-2/statem_dtls.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	558	558
Object	msg_hdr	msg_hdr

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)

```
....  
558.             memcpy(&(frag->msg_header), msg_hdr, sizeof(*msg_hdr));
```

Buffer Overflow boundcpy WrongSizeParam\Path 21:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=59>

Status New

The size of the buffer used by dtls1_process_out_of_seq_message in msg_hdr, at line 640 of freebsd-src-2/statem_dtls.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_process_out_of_seq_message passes to msg_hdr, at line 640 of freebsd-src-2/statem_dtls.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	697	697
Object	msg_hdr	msg_hdr

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method dtls1_process_out_of_seq_message(SSL *s, const struct hm_header_st *msg_hdr)

```
....
697.         memcpy(&(frag->msg_header), msg_hdr, sizeof(*msg_hdr));
```

Buffer Overflow boundcpy WrongSizeParam\Path 22:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=60>

Status New

The size of the buffer used by `ossl_statem_server_post_work` in `DTLS1_SCTP_AUTH_LABEL`, at line 808 of `freebsd-src-2/statem_srvr.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `ossl_statem_server_post_work` passes to `DTLS1_SCTP_AUTH_LABEL`, at line 808 of `freebsd-src-2/statem_srvr.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/statem_srvr.c	freebsd-src-2/statem_srvr.c
Line	861	861
Object	DTLS1_SCTP_AUTH_LABEL	DTLS1_SCTP_AUTH_LABEL

Code Snippet

File Name freebsd-src-2/statem_srvr.c

Method WORK_STATE `ossl_statem_server_post_work(SSL *s, WORK_STATE wst)`

```
....
861.         sizeof(DTLS1_SCTP_AUTH_LABEL));
```

Buffer Overflow boundcpy WrongSizeParam\Path 23:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=61>

Status New

The size of the buffer used by `tls_post_process_client_key_exchange` in `DTLS1_SCTP_AUTH_LABEL`, at line 3525 of `freebsd-src-2/statem_srvr.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `tls_post_process_client_key_exchange` passes to `DTLS1_SCTP_AUTH_LABEL`, at line 3525 of `freebsd-src-2/statem_srvr.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/statem_srvr.c	freebsd-src-2/statem_srvr.c
Line	3538	3538
Object	DTLS1_SCTP_AUTH_LABEL	DTLS1_SCTP_AUTH_LABEL

Code Snippet

File Name freebsd-src-2/statem_srvr.c

Method WORK_STATE tls_post_process_client_key_exchange(SSL *s, WORK_STATE wst)

```
....
3538.                                sizeof(DTLS1_SCTP_AUTH_LABEL));
```

Buffer Overflow boundcpy WrongSizeParam\Path 24:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=62>

Status New

The size of the buffer used by construct_stateless_ticket in Namespace1690719778, at line 3865 of freebsd-src-2/statem_srvr.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that construct_stateless_ticket passes to Namespace1690719778, at line 3865 of freebsd-src-2/statem_srvr.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/statem_srvr.c	freebsd-src-2/statem_srvr.c
Line	3988	3988
Object	Namespace1690719778	Namespace1690719778

Code Snippet

File Name freebsd-src-2/statem_srvr.c

Method static int construct_stateless_ticket(SSL *s, WPACKET *pkt, uint32_t age_add,

```
....
3988.                                sizeof(tctx->ext.tick_key_name));
```

Buffer Overflow boundcpy WrongSizeParam\Path 25:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=63>

Status New

The size of the buffer used by fcntl_getlock_pids in lock, at line 854 of freebsd-src-2/t_vnops.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that fcntl_getlock_pids passes to lock, at line 854 of freebsd-src-2/t_vnops.c, to overwrite the target buffer.

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

File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	878	878
Object	lock	lock

Code Snippet

File Name freebsd-src-2/t_vnops.c
Method fcntl_getlock_pids(const atf_tc_t *tc, const char *mp)

```
....
878.         memcpy(expect, lock, sizeof(lock));
```

Buffer Overflow boundcpy WrongSizeParam\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=64
Status	New

The size of the buffer used by tcp_set_cc_mod in cc_var, at line 1925 of freebsd-src-2/tcp_usrreq.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that tcp_set_cc_mod passes to cc_var, at line 1925 of freebsd-src-2/tcp_usrreq.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/tcp_usrreq.c	freebsd-src-2/tcp_usrreq.c
Line	2019	2019
Object	cc_var	cc_var

Code Snippet

File Name freebsd-src-2/tcp_usrreq.c
Method tcp_set_cc_mod(struct inpcb *inp, struct sockopt *sopt)

```
....
2019.         memcpy(&tp->t_ccv, &cc_mem, sizeof(struct cc_var));
```

Buffer Overflow boundcpy WrongSizeParam\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=65
Status	New

The size of the buffer used by wlan_get_local_addr in sockaddr_dl, at line 286 of freebsd-src-2/wlan_sys.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that wlan_get_local_addr passes to sockaddr_dl, at line 286 of freebsd-src-2/wlan_sys.c, to overwrite the target buffer.

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

File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	302	302
Object	sockaddr_dl	sockaddr_dl

Code Snippet

File Name freebsd-src-2/wlan_sys.c

Method wlan_get_local_addr(struct wlan_iface *wif)

```
....  
302.                memcpy(&sdl, ifa->ifa_addr, sizeof(struct  
sockaddr_dl));
```

Buffer Overflow boundcpy WrongSizeParam\Path 28:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=66>

Status New

The size of the buffer used by wlan_get_channel_list in c, at line 587 of freebsd-src-2/wlan_sys.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that wlan_get_channel_list passes to c, at line 587 of freebsd-src-2/wlan_sys.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	626	626
Object	c	c

Code Snippet

File Name freebsd-src-2/wlan_sys.c

Method wlan_get_channel_list(struct wlan_iface *wif)

```
....  
626.                memcpy(wif->chanlist + nchans, c, sizeof (*c));
```

Buffer Overflow boundcpy WrongSizeParam\Path 29:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=67>

Status New

The size of the buffer used by wlan_get_scan_results in ieee80211req_scan_result, at line 2187 of freebsd-src-2/wlan_sys.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that wlan_get_scan_results passes to ieee80211req_scan_result, at line 2187 of freebsd-src-2/wlan_sys.c, to overwrite the target buffer.

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

File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	2206	2206
Object	ieee80211req_scan_result	ieee80211req_scan_result

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_get_scan_results(struct wlan_iface *wif)

```
....
2206.             memcpy(&isr, cp, sizeof(struct
ieee80211req_scan_result));
```

Buffer Overflow boundcpy WrongSizeParam\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=68
Status	New

The size of the buffer used by wlan_get_peerinfo in ieee80211req_sta_info, at line 2714 of freebsd-src-2/wlan_sys.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that wlan_get_peerinfo passes to ieee80211req_sta_info, at line 2714 of freebsd-src-2/wlan_sys.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	2739	2739
Object	ieee80211req_sta_info	ieee80211req_sta_info

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_get_peerinfo(struct wlan_iface *wif)

```
....
2739.             memcpy(&si, cp, sizeof(struct ieee80211req_sta_info));
```

Buffer Overflow boundcpy WrongSizeParam\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=69
Status	New

The size of the buffer used by wlan_mesh_get_routelist in rt, at line 3036 of freebsd-src-2/wlan_sys.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that wlan_mesh_get_routelist passes to rt, at line 3036 of freebsd-src-2/wlan_sys.c, to overwrite the target buffer.

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

File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	3054	3054
Object	rt	rt

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_mesh_get_routelist(struct wlan_iface *wif)

```
....
3054.          memcpy(&wmr->imroute, rt, sizeof(*rt));
```

Buffer Overflow boundcpy WrongSizeParam\Path 32:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=70
Status	New

The size of the buffer used by X86_64::writePltHeader in pltData, at line 396 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that X86_64::writePltHeader passes to pltData, at line 396 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	402	402
Object	pltData	pltData

Code Snippet

File Name freebsd-src-2/X86_64.cpp
Method void X86_64::writePltHeader(uint8_t *buf) const {

```
....
402.          memcpy(buf, pltData, sizeof(pltData));
```

Buffer Overflow boundcpy WrongSizeParam\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=71
Status	New

The size of the buffer used by X86_64::writePlt in inst, at line 409 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that X86_64::writePlt passes to inst, at line 409 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

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

File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	416	416
Object	inst	inst

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void X86_64::writePlt(uint8_t *buf, const Symbol &sym,

```
....  
416.     memcpy(buf, inst, sizeof(inst));
```

Buffer Overflow boundcpy WrongSizeParam\Path 34:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=72>

Status New

The size of the buffer used by X86_64::relaxTlsGdToLe in inst, at line 430 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that X86_64::relaxTlsGdToLe passes to inst, at line 430 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	445	445
Object	inst	inst

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void X86_64::relaxTlsGdToLe(uint8_t *loc, const Relocation &rel,

```
....  
445.     memcpy(loc - 4, inst, sizeof(inst));
```

Buffer Overflow boundcpy WrongSizeParam\Path 35:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=73>

Status New

The size of the buffer used by X86_64::relaxTlsGdToLe in inst, at line 471 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that X86_64::relaxTlsGdToLe passes to inst, at line 471 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

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

File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	486	486
Object	inst	inst

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void X86_64::relaxTlsGdToIe(uint8_t *loc, const Relocation &rel,

```
....  
486.      memcpy(loc - 4, inst, sizeof(inst));
```

Buffer Overflow boundcpy WrongSizeParam\Path 36:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=74>

Status New

The size of the buffer used by X86_64::relaxTlsLdToLe in inst, at line 555 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that X86_64::relaxTlsLdToLe passes to inst, at line 555 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	582	582
Object	inst	inst

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void X86_64::relaxTlsLdToLe(uint8_t *loc, const Relocation &rel,

```
....  
582.      memcpy(loc - 3, inst, sizeof(inst));
```

Buffer Overflow boundcpy WrongSizeParam\Path 37:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=75>

Status New

The size of the buffer used by X86_64::relaxTlsLdToLe in inst, at line 555 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that X86_64::relaxTlsLdToLe passes to inst, at line 555 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

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

File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	596	596
Object	inst	inst

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void X86_64::relaxTlsLdToLe(uint8_t *loc, const Relocation &rel,

```
....  
596.      memcpy(loc - 2, inst, sizeof(inst));
```

Buffer Overflow boundcpy WrongSizeParam\Path 38:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=76>

Status New

The size of the buffer used by IntelIBT::writeIBTPlt in inst, at line 1012 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that IntelIBT::writeIBTPlt passes to inst, at line 1012 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	1024	1024
Object	inst	inst

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void IntelIBT::writeIBTPlt(uint8_t *buf, size_t numEntries) const {

```
....  
1024.      memcpy(buf, inst, sizeof(inst));
```

Buffer Overflow boundcpy WrongSizeParam\Path 39:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=77>

Status New

The size of the buffer used by IntelIBT::writePlt in Inst, at line 1001 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that IntelIBT::writePlt passes to Inst, at line 1001 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

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

File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	1008	1008
Object	Inst	Inst

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void IntelIBT::writePlt(uint8_t *buf, const Symbol &sym,

```
....  
1008.    memcpy(buf, Inst, sizeof(Inst));
```

Buffer Overflow boundcpy WrongSizeParam\Path 40:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=78>

Status New

The size of the buffer used by Retpoline::writePlt in insn, at line 1092 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that Retpoline::writePlt passes to insn, at line 1092 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	1102	1102
Object	insn	insn

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void Retpoline::writePlt(uint8_t *buf, const Symbol &sym,

```
....  
1102.    memcpy(buf, insn, sizeof(insn));
```

Buffer Overflow boundcpy WrongSizeParam\Path 41:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=79>

Status New

The size of the buffer used by Retpoline::writePltHeader in insn, at line 1070 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that Retpoline::writePltHeader passes to insn, at line 1070 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

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

File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	1084	1084
Object	insn	insn

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void Retpoline::writePltHeader(uint8_t *buf) const {

```
....  
1084.     memcpy(buf, insn, sizeof(insn));
```

Buffer Overflow boundcpy WrongSizeParam\Path 42:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=80>

Status New

The size of the buffer used by RetpolineZNow::writePlt in insn, at line 1135 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that RetpolineZNow::writePlt passes to insn, at line 1135 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	1142	1142
Object	insn	insn

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void RetpolineZNow::writePlt(uint8_t *buf, const Symbol &sym,

```
....  
1142.     memcpy(buf, insn, sizeof(insn));
```

Buffer Overflow boundcpy WrongSizeParam\Path 43:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=81>

Status New

The size of the buffer used by RetpolineZNow::writePltHeader in insn, at line 1119 of freebsd-src-2/X86_64.cpp, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that RetpolineZNow::writePltHeader passes to insn, at line 1119 of freebsd-src-2/X86_64.cpp, to overwrite the target buffer.

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

File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	1132	1132
Object	insn	insn

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method void RetpolineZNow::writePltHeader(uint8_t *buf) const {

```
....  
1132.     memcpy(buf, insn, sizeof(insn));
```

Buffer Overflow boundcpy WrongSizeParam\Path 44:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=82>

Status New

The size of the buffer used by ext4_ext_grow_indepth in ->, at line 1084 of freebsd-src-2/ext2_extents.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that ext4_ext_grow_indepth passes to ->, at line 1084 of freebsd-src-2/ext2_extents.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1108	1108
Object	->	->

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_grow_indepth(struct inode *ip, struct ext4_extent_path *path,

```
....  
1108.     memmove(bp->b_data, curpath->ep_header, sizeof(ip->i_data));
```

Buffer Overflow boundcpy WrongSizeParam\Path 45:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=83>

Status New

The size of the buffer used by sendpacket in ->, at line 85 of freebsd-src-2/cap_sendmsg.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that sendpacket passes to ->, at line 85 of freebsd-src-2/cap_sendmsg.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/cap_sendmsg.c	freebsd-src-2/cap_sendmsg.c

Line	112	112
Object	->	->

Code Snippet

File Name frebsd-src-2/cap_sendmsg.c

Method sendpacket(int sock, struct sockaddr_in6 *dst, uint32_t ifindex, int hoplimit,

```
....
112.             memset(&pi->ipi6_addr, 0, sizeof(pi->ipi6_addr));
                /*XXX*/
```

Buffer Overflow boundcpy WrongSizeParam\Path 46:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=84>

Status New

The size of the buffer used by dtls1_clear in s, at line 155 of frebsd-src-2/d1_lib.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_clear passes to s, at line 155 of frebsd-src-2/d1_lib.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/d1_lib.c	frebsd-src-2/d1_lib.c
Line	174	174
Object	s	s

Code Snippet

File Name frebsd-src-2/d1_lib.c

Method int dtls1_clear(SSL *s)

```
....
174.             memset(s->d1, 0, sizeof(*s->d1));
```

Buffer Overflow boundcpy WrongSizeParam\Path 47:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=85>

Status New

The size of the buffer used by dtls1_start_timer in ->, at line 243 of frebsd-src-2/d1_lib.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_start_timer passes to ->, at line 243 of frebsd-src-2/d1_lib.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/d1_lib.c	frebsd-src-2/d1_lib.c
Line	250	250

Object	->	->
--------	----	----

Code Snippet

File Name frebsd-src-2/d1_lib.c
Method void dtls1_start_timer(SSL *s)

```
....
250.             memset(&s->d1->next_timeout, 0, sizeof(s->d1-
>next_timeout));
```

Buffer Overflow boundcpy WrongSizeParam\Path 48:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=86
Status	New

The size of the buffer used by dtls1_stop_timer in ->, at line 352 of frebsd-src-2/d1_lib.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_stop_timer passes to ->, at line 352 of frebsd-src-2/d1_lib.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/d1_lib.c	frebsd-src-2/d1_lib.c
Line	355	355
Object	->	->

Code Snippet

File Name frebsd-src-2/d1_lib.c
Method void dtls1_stop_timer(SSL *s)

```
....
355.             memset(&s->d1->timeout, 0, sizeof(s->d1->timeout));
```

Buffer Overflow boundcpy WrongSizeParam\Path 49:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=87
Status	New

The size of the buffer used by dtls1_stop_timer in ->, at line 352 of frebsd-src-2/d1_lib.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that dtls1_stop_timer passes to ->, at line 352 of frebsd-src-2/d1_lib.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/d1_lib.c	frebsd-src-2/d1_lib.c
Line	356	356
Object	->	->

Code Snippet

File Name frebsd-src-2/d1_lib.c
Method void dtls1_stop_timer(SSL *s)

```
....  
356.           memset(&s->d1->next_timeout, 0, sizeof(s->d1->next_timeout));
```

Buffer Overflow boundcpy WrongSizeParam\Path 50:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=88>
Status New

The size of the buffer used by main in stat, at line 129 of frebsd-src-2/diff.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 stat, at line 129 of frebsd-src-2/diff.c, to overwrite the target buffer.

	Source	Destination
File	frebsd-src-2/diff.c	frebsd-src-2/diff.c
Line	402	402
Object	stat	stat

Code Snippet

File Name frebsd-src-2/diff.c
Method main(int argc, char **argv)

```
....  
402.           memset(&stb1, 0, sizeof(struct stat));
```

MemoryFree on StackVariable

Query Path:

CPP\Cx\CPP Medium Threat\MemoryFree on StackVariable Version:0

[Description](#)

MemoryFree on StackVariable\Path 1:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=213>
Status New

Calling free() (line 965) on a variable that was not dynamically allocated (line 965) in file frebsd-src-2/acpi_thermal.c may result with a crash.

	Source	Destination
File	frebsd-src-2/acpi_thermal.c	frebsd-src-2/acpi_thermal.c
Line	984	984

Object	devs	devs
--------	------	------

Code Snippet

File Name freebsd-src-2/acpi_thermal.c
Method acpi_tz_thread(void *arg)

```
....
984.                free(devs, M_TEMP);
```

MemoryFree on StackVariable\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=214
Status	New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	149	149
Object	nm	nm

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)

```
....
149.                free(nm);
```

MemoryFree on StackVariable\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=215
Status	New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	150	150
Object	tp	tp

Code Snippet

File Name frebsd-src-2/cachedump.c

Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)

```
....  
150.                   free(tp);
```

MemoryFree on StackVariable\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=216>

Status New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file frebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	frebsd-src-2/cachedump.c	frebsd-src-2/cachedump.c
Line	151	151
Object	cl	cl

Code Snippet

File Name frebsd-src-2/cachedump.c

Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)

```
....  
151.                   free(cl);
```

MemoryFree on StackVariable\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=217>

Status New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file frebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	frebsd-src-2/cachedump.c	frebsd-src-2/cachedump.c
Line	155	155
Object	nm	nm

Code Snippet

File Name frebsd-src-2/cachedump.c

Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)

```
....
155.                free (nm) ;
```

MemoryFree on StackVariable\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=218
Status	New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	156	156
Object	tp	tp

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)

```
....
156.                free (tp) ;
```

MemoryFree on StackVariable\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=219
Status	New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	157	157
Object	cl	cl

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)


```
....
157.                free (cl) ;
```

MemoryFree on StackVariable\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=220
Status	New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	160	160
Object	nm	nm

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)

```
....
160.                free (nm) ;
```

MemoryFree on StackVariable\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=221
Status	New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	161	161
Object	tp	tp

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)

```
....  
161.         free(tp);
```

MemoryFree on StackVariable\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=222
Status	New

Calling free() (line 142) on a variable that was not dynamically allocated (line 142) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	162	162
Object	cl	cl

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg_ref(RES* ssl, struct ub_packed_rrset_key* k)

```
....  
162.         free(cl);
```

MemoryFree on StackVariable\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=223
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	181	181
Object	nm	nm

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....
181.                free (nm) ;
```

MemoryFree on StackVariable\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=224
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	182	182
Object	tp	tp

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....
182.                free (tp) ;
```

MemoryFree on StackVariable\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=225
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	183	183
Object	cl	cl

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....  
183.                free (cl) ;
```

MemoryFree on StackVariable\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=226
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	188	188
Object	nm	nm

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....  
188.                free (nm) ;
```

MemoryFree on StackVariable\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=227
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	189	189
Object	tp	tp

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....  
189.                free(tp);
```

MemoryFree on StackVariable\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=228
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	190	190
Object	cl	cl

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....  
190.                free(cl);
```

MemoryFree on StackVariable\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=229
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	202	202
Object	nm	nm

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....  
202.                free (nm) ;
```

MemoryFree on StackVariable\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=230
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	203	203
Object	tp	tp

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....  
203.                free (tp) ;
```

MemoryFree on StackVariable\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=231
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	204	204
Object	cl	cl

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....
204.          free (cl) ;
```

MemoryFree on StackVariable\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=232
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	208	208
Object	nm	nm

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....
208.          free (nm) ;
```

MemoryFree on StackVariable\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=233
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	209	209
Object	tp	tp

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....  
209.         free(tp);
```

MemoryFree on StackVariable\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=234
Status	New

Calling free() (line 169) on a variable that was not dynamically allocated (line 169) in file freebsd-src-2/cachedump.c may result with a crash.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	210	210
Object	cl	cl

Code Snippet

File Name freebsd-src-2/cachedump.c
Method dump_msg(RES* ssl, struct query_info* k, struct reply_info* d,

```
....  
210.         free(cl);
```

MemoryFree on StackVariable\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=235
Status	New

Calling free() (line 123) on a variable that was not dynamically allocated (line 123) in file freebsd-src-2/dtstream.c may result with a crash.

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	129	129
Object	e	e

Code Snippet

File Name freebsd-src-2/dtstream.c
Method dt_msg_queue_clear(struct dt_msg_queue* mq)


```
.....  
129.                free(e);
```

MemoryFree on StackVariable\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=236
Status	New

Calling free() (line 307) on a variable that was not dynamically allocated (line 307) in file freebsd-src-2/dtstream.c may result with a crash.

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	315	315
Object	item	item

Code Snippet

File Name freebsd-src-2/dtstream.c
Method void dt_io_thread_delete(struct dt_io_thread* dtio)

```
.....  
315.                free(item);
```

MemoryFree on StackVariable\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=237
Status	New

Calling free() (line 463) on a variable that was not dynamically allocated (line 463) in file freebsd-src-2/dtstream.c may result with a crash.

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	478	478
Object	item	item

Code Snippet

File Name freebsd-src-2/dtstream.c
Method void dt_io_thread_unregister_queue(struct dt_io_thread* dtio,

```
....  
478.                free(item);
```

MemoryFree on StackVariable\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=238
Status	New

Calling free() (line 489) on a variable that was not dynamically allocated (line 489) in file freebsd-src-2/dtstream.c may result with a crash.

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	503	503
Object	entry	entry

Code Snippet

File Name freebsd-src-2/dtstream.c
Method static int dt_msg_queue_pop(struct dt_msg_queue* mq, void** buf,

```
....  
503.                free(entry);
```

MemoryFree on StackVariable\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=239
Status	New

Calling free() (line 159) on a variable that was not dynamically allocated (line 159) in file freebsd-src-2/http-server.c may result with a crash.

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	316	316
Object	decoded_path	decoded_path

Code Snippet

File Name freebsd-src-2/http-server.c
Method send_document_cb(struct evhttp_request *req, void *arg)

```
....
316.          free(decoded_path);
```

MemoryFree on StackVariable\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=240
Status	New

Calling free() (line 455) on a variable that was not dynamically allocated (line 455) in file freebsd-src-2/mem_dbg.c may result with a crash.

	Source	Destination
File	freebsd-src-2/mem_dbg.c	freebsd-src-2/mem_dbg.c
Line	562	562
Object	strings	strings

Code Snippet

File Name freebsd-src-2/mem_dbg.c
Method static void print_leak(const MEM *m, MEM_LEAK *l)

```
....
562.          free(strings);
```

MemoryFree on StackVariable\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=241
Status	New

Calling free() (line 73) on a variable that was not dynamically allocated (line 73) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	93	93
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_get_name(krb5_context context,

```
....  
93.    free(name);
```

MemoryFree on StackVariable\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=242
Status	New

Calling free() (line 73) on a variable that was not dynamically allocated (line 73) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	100	100
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_get_name(krb5_context context,

```
....  
100.    free(name);
```

MemoryFree on StackVariable\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=243
Status	New

Calling free() (line 73) on a variable that was not dynamically allocated (line 73) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	104	104
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_get_name(krb5_context context,

```
....  
104.      free (name) ;
```

MemoryFree on StackVariable\Path 32:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=244
Status	New

Calling free() (line 116) on a variable that was not dynamically allocated (line 116) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	133	133
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_gen_new(krb5_context context,

```
....  
133.      free (name) ;
```

MemoryFree on StackVariable\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=245
Status	New

Calling free() (line 147) on a variable that was not dynamically allocated (line 147) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	169	169
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_initialize(krb5_context context,

```
.....  
169.          free (name) ;
```

MemoryFree on StackVariable\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=246
Status	New

Calling free() (line 147) on a variable that was not dynamically allocated (line 147) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	175	175
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_initialize(krb5_context context,

```
.....  
175.          free (name) ;
```

MemoryFree on StackVariable\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=247
Status	New

Calling free() (line 147) on a variable that was not dynamically allocated (line 147) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	182	182
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_initialize(krb5_context context,

```
....  
182.      free(name);
```

MemoryFree on StackVariable\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=248
Status	New

Calling free() (line 213) on a variable that was not dynamically allocated (line 213) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	232	232
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_destroy(krb5_context context,

```
....  
232.      free(name);
```

MemoryFree on StackVariable\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=249
Status	New

Calling free() (line 246) on a variable that was not dynamically allocated (line 246) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	265	265
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_store(krb5_context context,

```
....  
265.          free(name);
```

MemoryFree on StackVariable\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=250
Status	New

Calling free() (line 246) on a variable that was not dynamically allocated (line 246) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	272	272
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_store(krb5_context context,

```
....  
272.          free(name);
```

MemoryFree on StackVariable\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=251
Status	New

Calling free() (line 246) on a variable that was not dynamically allocated (line 246) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	279	279
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_store(krb5_context context,


```
....  
279.         free(name);
```

MemoryFree on StackVariable\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=252
Status	New

Calling free() (line 246) on a variable that was not dynamically allocated (line 246) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	287	287
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_store(krb5_context context,

```
....  
287.         free(name);
```

MemoryFree on StackVariable\Path 41:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=253
Status	New

Calling free() (line 304) on a variable that was not dynamically allocated (line 304) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	326	326
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_retrieve(krb5_context context,

```
....  
326.          free(name);
```

MemoryFree on StackVariable\Path 42:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=254
Status	New

Calling free() (line 304) on a variable that was not dynamically allocated (line 304) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	332	332
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_retrieve(krb5_context context,

```
....  
332.          free(name);
```

MemoryFree on StackVariable\Path 43:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=255
Status	New

Calling free() (line 304) on a variable that was not dynamically allocated (line 304) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	340	340
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_retrieve(krb5_context context,

```
....  
340.         free(name);
```

MemoryFree on StackVariable\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=256
Status	New

Calling free() (line 304) on a variable that was not dynamically allocated (line 304) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	348	348
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_retrieve(krb5_context context,

```
....  
348.         free(name);
```

MemoryFree on StackVariable\Path 45:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=257
Status	New

Calling free() (line 304) on a variable that was not dynamically allocated (line 304) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	377	377
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_retrieve(krb5_context context,

```
....
377.         free(name);
```

MemoryFree on StackVariable\Path 46:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=258
Status	New

Calling free() (line 395) on a variable that was not dynamically allocated (line 395) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	414	414
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_get_principal(krb5_context context,

```
....
414.         free(name);
```

MemoryFree on StackVariable\Path 47:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=259
Status	New

Calling free() (line 395) on a variable that was not dynamically allocated (line 395) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	423	423
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_get_principal(krb5_context context,

```
....  
423.      free(name);
```

MemoryFree on StackVariable\Path 48:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=260
Status	New

Calling free() (line 438) on a variable that was not dynamically allocated (line 438) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	457	457
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_get_cred_uuid_list(krb5_context context,

```
....  
457.      free(name);
```

MemoryFree on StackVariable\Path 49:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=261
Status	New

Calling free() (line 484) on a variable that was not dynamically allocated (line 484) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	505	505
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_get_cred_by_uuid(krb5_context context,

```
....
505.         free(name);
```

MemoryFree on StackVariable\Path 50:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=262
Status	New

Calling free() (line 541) on a variable that was not dynamically allocated (line 541) in file freebsd-src-2/protocol.c may result with a crash.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	561	561
Object	name	name

Code Snippet

File Name freebsd-src-2/protocol.c
Method kcm_op_remove_cred(krb5_context context,

```
....
561.         free(name);
```

Use of Zero Initialized Pointer

Query Path:

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

Categories

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

Description

Use of Zero Initialized Pointer\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=856
Status	New

The variable declared in ecdh at freebsd-src-2/crypto_wolfssl.c in line 1699 is not initialized when it is used by ecdh at freebsd-src-2/crypto_wolfssl.c in line 1699.

	Source	Destination
File	freebsd-src-2/crypto_wolfssl.c	freebsd-src-2/crypto_wolfssl.c
Line	1701	1708

Object	ecdh	ecdh
--------	------	------

Code Snippet

File Name frebsd-src-2/crypto_wolfssl.c
Method struct crypto_ecdh * crypto_ecdh_init(int group)

```
....
1701.      struct crypto_ecdh *ecdh = NULL;
....
1708.      ecdh = os_zalloc(sizeof(*ecdh));
```

Use of Zero Initialized Pointer\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=857
Status	New

The variable declared in additional at frebsd-src-2/drbg_lib.c in line 646 is not initialized when it is used by adin at frebsd-src-2/drbg_lib.c in line 566.

	Source	Destination
File	frebsd-src-2/drbg_lib.c	frebsd-src-2/drbg_lib.c
Line	648	568
Object	additional	adin

Code Snippet

File Name frebsd-src-2/drbg_lib.c
Method int RAND_DRBG_bytes(RAND_DRBG *drbg, unsigned char *out, size_t outlen)

```
....
648.      unsigned char *additional = NULL;
```



File Name frebsd-src-2/drbg_lib.c
Method int RAND_DRBG_generate(RAND_DRBG *drbg, unsigned char *out, size_t outlen,

```
....
568.      const unsigned char *adin, size_t adinlen)
```

Use of Zero Initialized Pointer\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=858
Status	New

The variable declared in qp at freebsd-src-2/fbsd_kcompat.c in line 773 is not initialized when it is used by qp at freebsd-src-2/fbsd_kcompat.c in line 773.

	Source	Destination
File	freebsd-src-2/fbsd_kcompat.c	freebsd-src-2/fbsd_kcompat.c
Line	775	781
Object	qp	qp

Code Snippet

File Name freebsd-src-2/fbsd_kcompat.c

Method irdma_cleanup_dead_qps(struct irdma_sc_vsi *vsi)

```
....  
775.         struct irdma_sc_qp *qp = NULL;  
....  
781.         qp = irdma_get_qp_from_list(&vsi->qos[i].qplist, qp);
```

Use of Zero Initialized Pointer\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=859>

Status New

The variable declared in cm at freebsd-src-2/ip6_output.c in line 2800 is not initialized when it is used by cm at freebsd-src-2/ip6_output.c in line 2800.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2803	2852
Object	cm	cm

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_setpktopts(struct mbuf *control, struct ip6_pktopts *opt,

```
....  
2803.         struct cmsghdr *cm = NULL;  
....  
2852.         cm->cmsg_len = CMSG_LEN(0), opt, cred, 0, 1,  
uproto);
```

Use of Zero Initialized Pointer\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=860>

Status New

The variable declared in cm at freebsd-src-2/ip6_output.c in line 2800 is not initialized when it is used by cm at freebsd-src-2/ip6_output.c in line 2800.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2803	2851
Object	cm	cm

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_setpktopts(struct mbuf *control, struct ip6_pktopts *opt,

```
....
2803.         struct cmsghdr *cm = NULL;
....
2851.         error = ip6_setpktopt(cm->cmsg_type, CMSG_DATA(cm),
```

Use of Zero Initialized Pointer\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=861>

Status New

The variable declared in server at freebsd-src-2/protocol.c in line 754 is not initialized when it is used by server at freebsd-src-2/protocol.c in line 754.

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	764	809
Object	server	server

Code Snippet

File Name freebsd-src-2/protocol.c

Method kcm_op_get_initial_ticket(krb5_context context,

```
....
764.         krb5_principal server = NULL;
....
809.         ccache->server = server;
```

Use of Zero Initialized Pointer\Path 7:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=862>

Status New

The variable declared in pi at freebsd-src-2/rtsol.c in line 159 is not initialized when it is used by pi at freebsd-src-2/rtsol.c in line 159.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	169	245
Object	pi	pi

Code Snippet

File Name freebsd-src-2/rtsol.c
Method rtsol_input(int sock)

```
....  
169.         struct in6_pktinfo *pi = NULL;  
....  
245.         if_indextoname(pi->ipi6_ifindex, ifnamebuf));
```

Use of Zero Initialized Pointer\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=863
Status	New

The variable declared in pi at freebsd-src-2/rtsol.c in line 159 is not initialized when it is used by pi at freebsd-src-2/rtsol.c in line 159.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	169	254
Object	pi	pi

Code Snippet

File Name freebsd-src-2/rtsol.c
Method rtsol_input(int sock)

```
....  
169.         struct in6_pktinfo *pi = NULL;  
....  
254.         if_indextoname(pi->ipi6_ifindex, ifnamebuf));
```

Use of Zero Initialized Pointer\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=864
Status	New

The variable declared in pi at freebsd-src-2/rtsol.c in line 159 is not initialized when it is used by pi at freebsd-src-2/rtsol.c in line 159.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	169	264
Object	pi	pi

Code Snippet

File Name freebsd-src-2/rtsol.c
Method rtsol_input(int sock)

```
....  
169.         struct in6_pktinfo *pi = NULL;  
....  
264.         if_indextoname(pi->ipi6_ifindex, ifnamebuf);
```

Use of Zero Initialized Pointer\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=865
Status	New

The variable declared in patterns at freebsd-src-2/scp.c in line 1648 is not initialized when it is used by patterns at freebsd-src-2/scp.c in line 1648.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1661	1957
Object	patterns	patterns

Code Snippet

File Name freebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
....  
1661.         char **patterns = NULL;  
....  
1957.         free(patterns[n]);
```

Use of Zero Initialized Pointer\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=866
Status	New

The variable declared in Pointer at freebsd-src-2/scp.c in line 946 is not initialized when it is used by patterns at freebsd-src-2/scp.c in line 1648.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	952	1957
Object	Pointer	patterns

Code Snippet

File Name freebsd-src-2/scp.c
Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
....
952.         *patternsp = NULL;
```

File Name freebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
....
1957.         free(patterns[n]);
```

Use of Zero Initialized Pointer\Path 12:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=867>
Status New

The variable declared in done at freebsd-src-2/scp.c in line 946 is not initialized when it is used by patterns at freebsd-src-2/scp.c in line 1648.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	997	1957
Object	done	patterns

Code Snippet

File Name freebsd-src-2/scp.c
Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
....
997.         done = NULL;
```

File Name freebsd-src-2/scp.c

Method sink(int argc, char **argv, const char *src)

```
....  
1957.                free(patterns[n]);
```

Use of Zero Initialized Pointer\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=868
Status	New

The variable declared in cmd at freebsd-src-2/session.c in line 1218 is not initialized when it is used by f at freebsd-src-2/session.c in line 1218.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1221	1238
Object	cmd	f

Code Snippet

File Name freebsd-src-2/session.c
Method do_rc_files(struct ssh *ssh, Session *s, const char *shell)

```
....  
1221.        char *cmd = NULL, *user_rc = NULL;  
....  
1238.        f = popen(cmd, "w");
```

Use of Zero Initialized Pointer\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=869
Status	New

The variable declared in cmd at freebsd-src-2/session.c in line 1218 is not initialized when it is used by f at freebsd-src-2/session.c in line 1218.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1221	1273
Object	cmd	f

Code Snippet

File Name freebsd-src-2/session.c
Method do_rc_files(struct ssh *ssh, Session *s, const char *shell)

```

.....
1221.         char *cmd = NULL, *user_rc = NULL;
.....
1273.         f = popen(cmd, "w");

```

Use of Zero Initialized Pointer\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=870
Status	New

The variable declared in buf at freebsd-src-2/statem_dtls.c in line 56 is not initialized when it is used by frag at freebsd-src-2/statem_dtls.c in line 56.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	59	76
Object	buf	frag

Code Snippet

File Name freebsd-src-2/statem_dtls.c
Method static hm_fragment *dtls1_hm_fragment_new(size_t frag_len, int reassembly)

```

.....
59.         unsigned char *buf = NULL;
.....
76.         frag->fragment = buf;

```

Use of Zero Initialized Pointer\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=871
Status	New

The variable declared in frag at freebsd-src-2/statem_dtls.c in line 531 is not initialized when it is used by reassembly at freebsd-src-2/statem_dtls.c in line 531.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	565	600
Object	frag	reassembly

Code Snippet

File Name freebsd-src-2/statem_dtls.c
Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)

```

.....
565.                frag = NULL;
.....
600.    RSMBLY_BITMASK_MARK(frag->reassembly, (long)msg_hdr->frag_off,

```

Use of Zero Initialized Pointer\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=872
Status	New

The variable declared in reassembly at freebsd-src-2/statem_dtls.c in line 531 is not initialized when it is used by frag at freebsd-src-2/statem_dtls.c in line 531.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	610	609
Object	reassembly	frag

Code Snippet

File Name freebsd-src-2/statem_dtls.c
Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)

```

.....
610.                frag->reassembly = NULL;
.....
609.    OPENSSL_free(frag->reassembly);

```

Use of Zero Initialized Pointer\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=873
Status	New

The variable declared in frag at freebsd-src-2/statem_dtls.c in line 531 is not initialized when it is used by frag at freebsd-src-2/statem_dtls.c in line 531.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	565	609
Object	frag	frag

Code Snippet

File Name freebsd-src-2/statem_dtls.c
Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)

```
....
565.             frag = NULL;
....
609.             OPENSSL_free(frag->reassembly);
```

Use of Zero Initialized Pointer\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=874
Status	New

The variable declared in frag at freebsd-src-2/statem_dtls.c in line 531 is not initialized when it is used by reassembly at freebsd-src-2/statem_dtls.c in line 531.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	565	600
Object	frag	reassembly

Code Snippet

File Name freebsd-src-2/statem_dtls.c
Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)

```
....
565.             frag = NULL;
....
600.             RSMBLY_BITMASK_MARK(frag->reassembly, (long)msg_hdr->frag_off,
```

Use of Zero Initialized Pointer\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=875
Status	New

The variable declared in frag at freebsd-src-2/statem_dtls.c in line 531 is not initialized when it is used by reassembly at freebsd-src-2/statem_dtls.c in line 531.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	565	600
Object	frag	reassembly

Code Snippet

File Name freebsd-src-2/statem_dtls.c
Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)


```

.....
565.                frag = NULL;
.....
600.    RSMBLY_BITMASK_MARK(frag->reassembly, (long)msg_hdr->frag_off,

```

Use of Zero Initialized Pointer\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=876
Status	New

The variable declared in frag at freebsd-src-2/statem_dtls.c in line 531 is not initialized when it is used by frag at freebsd-src-2/statem_dtls.c in line 531.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	565	593
Object	frag	frag

Code Snippet

File Name freebsd-src-2/statem_dtls.c
Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)

```

.....
565.                frag = NULL;
.....
593.                frag->fragment + msg_hdr-
>frag_off,

```

Use of Zero Initialized Pointer\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=877
Status	New

The variable declared in bitmask at freebsd-src-2/statem_dtls.c in line 56 is not initialized when it is used by reassembly at freebsd-src-2/statem_dtls.c in line 56.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	60	89
Object	bitmask	reassembly

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method static hm_fragment *dtls1_hm_fragment_new(size_t frag_len, int reassembly)

```
....  
60.      unsigned char *bitmask = NULL;  
....  
89.      frag->reassembly = bitmask;
```

Use of Zero Initialized Pointer\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=878
Status	New

The variable declared in clienthello at freebsd-src-2/statem_srvr.c in line 1383 is not initialized when it is used by clienthello at freebsd-src-2/statem_srvr.c in line 1383.

	Source	Destination
File	freebsd-src-2/statem_srvr.c	freebsd-src-2/statem_srvr.c
Line	1388	1408
Object	clienthello	clienthello

Code Snippet

File Name freebsd-src-2/statem_srvr.c
Method MSG_PROCESS_RETURN tls_process_client_hello(SSL *s, PACKET *pkt)

```
....  
1388.      CLIENTHELLO_MSG *clienthello = NULL;  
....  
1408.      clienthello = OPENSSL_zalloc(sizeof(*clienthello));
```

Use of Zero Initialized Pointer\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=879
Status	New

The variable declared in comp at freebsd-src-2/statem_srvr.c in line 1611 is not initialized when it is used by new_compression at freebsd-src-2/statem_srvr.c in line 1611.

	Source	Destination
File	freebsd-src-2/statem_srvr.c	freebsd-src-2/statem_srvr.c
Line	1619	2051
Object	comp	new_compression

Code Snippet

File Name freebsd-src-2/statem_srvr.c

Method static int tls_early_post_process_client_hello(SSL *s)

```
....
1619.         SSL_COMP *comp = NULL;
....
2051.         s->s3->tmp.new_compression = comp;
```

Use of Zero Initialized Pointer\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=880
Status	New

The variable declared in notify_addr at freebsd-src-2/vnic_dev.c in line 733 is not initialized when it is used by notify at freebsd-src-2/vnic_dev.c in line 703.

	Source	Destination
File	freebsd-src-2/vnic_dev.c	freebsd-src-2/vnic_dev.c
Line	735	718
Object	notify_addr	notify

Code Snippet

File Name freebsd-src-2/vnic_dev.c
Method int vnic_dev_notify_set(struct vnic_dev *vdev, u16 intr)

```
....
735.         void *notify_addr = NULL;
```



File Name freebsd-src-2/vnic_dev.c
Method int vnic_dev_notify_setcmd(struct vnic_dev *vdev,

```
....
718.         vdev->notify = notify_addr;
```

Use of Zero Initialized Pointer\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=881
Status	New

The variable declared in data at freebsd-src-2/a_object.c in line 239 is not initialized when it is used by data at freebsd-src-2/a_object.c in line 239.

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

File	freebsd-src-2/a_object.c	freebsd-src-2/a_object.c
Line	300	299
Object	data	data

Code Snippet

File Name freebsd-src-2/a_object.c

Method ASN1_OBJECT *c2i_ASN1_OBJECT(ASN1_OBJECT **a, const unsigned char **pp,

```
....  
300.         ret->data = NULL;  
....  
299.         data = (unsigned char *)ret->data;
```

Use of Zero Initialized Pointer\Path 27:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=882>

Status New

The variable declared in ln at freebsd-src-2/a_object.c in line 239 is not initialized when it is used by ret at freebsd-src-2/a_object.c in line 211.

	Source	Destination
File	freebsd-src-2/a_object.c	freebsd-src-2/a_object.c
Line	323	230
Object	ln	ret

Code Snippet

File Name freebsd-src-2/a_object.c

Method ASN1_OBJECT *c2i_ASN1_OBJECT(ASN1_OBJECT **a, const unsigned char **pp,

```
....  
323.         ret->ln = NULL;
```



File Name freebsd-src-2/a_object.c

Method ASN1_OBJECT *d2i_ASN1_OBJECT(ASN1_OBJECT **a, const unsigned char **pp,

```
....  
230.         ret = c2i_ASN1_OBJECT(a, &p, len);
```

Use of Zero Initialized Pointer\Path 28:

Severity Medium

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=883
Status	New

The variable declared in sn at freebsd-src-2/a_object.c in line 239 is not initialized when it is used by ret at freebsd-src-2/a_object.c in line 211.

	Source	Destination
File	freebsd-src-2/a_object.c	freebsd-src-2/a_object.c
Line	322	230
Object	sn	ret

Code Snippet

File Name freebsd-src-2/a_object.c

Method ASN1_OBJECT *c2i_ASN1_OBJECT(ASN1_OBJECT **a, const unsigned char **pp,

```
....
322.     ret->sn = NULL;
```



File Name freebsd-src-2/a_object.c

Method ASN1_OBJECT *d2i_ASN1_OBJECT(ASN1_OBJECT **a, const unsigned char **pp,

```
....
230.     ret = c2i_ASN1_OBJECT(a, &p, len);
```

Use of Zero Initialized Pointer\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=884
Status	New

The variable declared in last at freebsd-src-2/buffer.c in line 795 is not initialized when it is used by first at freebsd-src-2/buffer.c in line 308.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	799	315
Object	last	first

Code Snippet

File Name freebsd-src-2/buffer.c

Method ZERO_CHAIN(struct evbuffer *dst)

```
....
799.         dst->last = NULL;
```

File Name frebsd-src-2/buffer.c
Method evbuffer_chain_insert(struct evbuffer *buf,

```
....
315.         EVUTIL_ASSERT(buf->first == NULL);
```

Use of Zero Initialized Pointer\Path 30:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=885>
Status New

The variable declared in first at frebsd-src-2/buffer.c in line 795 is not initialized when it is used by first at frebsd-src-2/buffer.c in line 308.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	798	315
Object	first	first

Code Snippet

File Name frebsd-src-2/buffer.c
Method ZERO_CHAIN(struct evbuffer *dst)

```
....
798.         dst->first = NULL;
```

File Name frebsd-src-2/buffer.c
Method evbuffer_chain_insert(struct evbuffer *buf,

```
....
315.         EVUTIL_ASSERT(buf->first == NULL);
```

Use of Zero Initialized Pointer\Path 31:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=886>
Status New

The variable declared in Pointer at freebsd-src-2/buffer.c in line 290 is not initialized when it is used by first at freebsd-src-2/buffer.c in line 308.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	299	315
Object	Pointer	first

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_free_trailing_empty_chains(struct evbuffer *buf)

```
....
299.             *ch = NULL;
```

File Name freebsd-src-2/buffer.c
Method evbuffer_chain_insert(struct evbuffer *buf,

```
....
315.             EVUTIL_ASSERT(buf->first == NULL);
```

Use of Zero Initialized Pointer\Path 32:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=887>
Status New

The variable declared in Pointer at freebsd-src-2/buffer.c in line 809 is not initialized when it is used by last at freebsd-src-2/buffer.c in line 853.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	817	864
Object	Pointer	last

Code Snippet

File Name freebsd-src-2/buffer.c
Method PRESERVE_PINNED(struct evbuffer *src, struct evbuffer_chain **first,

```
....
817.             *first = *last = NULL;
```

File Name freebsd-src-2/buffer.c

Method RESTORE_PINNED(struct evbuffer *src, struct evbuffer_chain *pinned,

```
....
864.         src->last = last;
```

Use of Zero Initialized Pointer\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=888
Status	New

The variable declared in Pointer at freebsd-src-2/buffer.c in line 809 is not initialized when it is used by first at freebsd-src-2/buffer.c in line 853.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	817	863
Object	Pointer	first

Code Snippet

File Name freebsd-src-2/buffer.c
Method PRESERVE_PINNED(struct evbuffer *src, struct evbuffer_chain **first,

```
....
817.         *first = *last = NULL;
```

File Name freebsd-src-2/buffer.c
Method RESTORE_PINNED(struct evbuffer *src, struct evbuffer_chain *pinned,

```
....
863.         src->first = pinned;
```

Use of Zero Initialized Pointer\Path 34:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=889
Status	New

The variable declared in a at freebsd-src-2/crypto_wolfssl.c in line 1012 is not initialized when it is used by y2 at freebsd-src-2/crypto_wolfssl.c in line 1634.

	Source	Destination
File	freebsd-src-2/crypto_wolfssl.c	freebsd-src-2/crypto_wolfssl.c

Line	1022	1647
Object	a	y2

Code Snippet

File Name freebsd-src-2/crypto_wolfssl.c
Method struct crypto_bignum * crypto_bignum_init(void)

```
....  
1022.                   a = NULL;
```

File Name freebsd-src-2/crypto_wolfssl.c
Method crypto_ec_point_compute_y_sqr(struct crypto_ec *e,

```
....  
1647.           y2 = (mp_int *) crypto_bignum_init();
```

Use of Zero Initialized Pointer\Path 35:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=890>
Status New

The variable declared in e at freebsd-src-2/crypto_wolfssl.c in line 1318 is not initialized when it is used by ecdh at freebsd-src-2/crypto_wolfssl.c in line 1699.

	Source	Destination
File	freebsd-src-2/crypto_wolfssl.c	freebsd-src-2/crypto_wolfssl.c
Line	1380	1712
Object	e	ecdh

Code Snippet

File Name freebsd-src-2/crypto_wolfssl.c
Method struct crypto_ec * crypto_ec_init(int group)

```
....  
1380.                   e = NULL;
```

File Name freebsd-src-2/crypto_wolfssl.c
Method struct crypto_ecdh * crypto_ecdh_init(int group)

```
....  
1712.           ecdh->ec = crypto_ec_init(group);
```

Use of Zero Initialized Pointer\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=891
Status	New

The variable declared in meth at freebsd-src-2/drbg_lib.c in line 103 is not initialized when it is used by meth at freebsd-src-2/drbg_lib.c in line 470.

	Source	Destination
File	freebsd-src-2/drbg_lib.c	freebsd-src-2/drbg_lib.c
Line	132	541
Object	meth	meth

Code Snippet

File Name freebsd-src-2/drbg_lib.c
Method int RAND_DRBG_set(RAND_DRBG *drbg, int type, unsigned int flags)

```
....  
132.         drbg->meth = NULL;
```

File Name freebsd-src-2/drbg_lib.c
Method int rand_drbg_restart(RAND_DRBG *drbg,

```
....  
541.         drbg->meth->reseed(drbg, adin, adinlen, NULL, 0);
```

Use of Zero Initialized Pointer\Path 37:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=892
Status	New

The variable declared in meth at freebsd-src-2/drbg_lib.c in line 103 is not initialized when it is used by meth at freebsd-src-2/drbg_lib.c in line 470.

	Source	Destination
File	freebsd-src-2/drbg_lib.c	freebsd-src-2/drbg_lib.c
Line	127	541
Object	meth	meth

Code Snippet

File Name freebsd-src-2/drbg_lib.c
Method int RAND_DRBG_set(RAND_DRBG *drbg, int type, unsigned int flags)

```
....
127.         drbg->meth = NULL;
```

File Name frebsd-src-2/drbg_lib.c
Method int rand_drbg_restart(RAND_DRBG *drbg,

```
....
541.         drbg->meth->reseed(drbg, adin, adinlen, NULL, 0);
```

Use of Zero Initialized Pointer\Path 38:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=893
Status	New

The variable declared in meth at frebsd-src-2/drbg_lib.c in line 103 is not initialized when it is used by meth at frebsd-src-2/drbg_lib.c in line 103.

	Source	Destination
File	frebsd-src-2/drbg_lib.c	frebsd-src-2/drbg_lib.c
Line	132	114
Object	meth	meth

Code Snippet

File Name frebsd-src-2/drbg_lib.c
Method int RAND_DRBG_set(RAND_DRBG *drbg, int type, unsigned int flags)

```
....
132.         drbg->meth = NULL;
....
114.         drbg->meth->uninstantiate(drbg);
```

Use of Zero Initialized Pointer\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=894
Status	New

The variable declared in meth at frebsd-src-2/drbg_lib.c in line 103 is not initialized when it is used by meth at frebsd-src-2/drbg_lib.c in line 103.

	Source	Destination
File	frebsd-src-2/drbg_lib.c	frebsd-src-2/drbg_lib.c

Line	127	114
Object	meth	meth

Code Snippet

File Name frebsd-src-2/drbg_lib.c

Method int RAND_DRBG_set(RAND_DRBG *drbg, int type, unsigned int flags)

```
....
127.             drbg->meth = NULL;
....
114.             drbg->meth->uninstantiate(drbg);
```

Use of Zero Initialized Pointer\Path 40:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=895>

Status New

The variable declared in meth at frebsd-src-2/drbg_lib.c in line 103 is not initialized when it is used by meth at frebsd-src-2/drbg_lib.c in line 377.

	Source	Destination
File	frebsd-src-2/drbg_lib.c	frebsd-src-2/drbg_lib.c
Line	132	390
Object	meth	meth

Code Snippet

File Name frebsd-src-2/drbg_lib.c

Method int RAND_DRBG_set(RAND_DRBG *drbg, int type, unsigned int flags)

```
....
132.             drbg->meth = NULL;
```



File Name frebsd-src-2/drbg_lib.c

Method int RAND_DRBG_uninstantiate(RAND_DRBG *drbg)

```
....
390.             drbg->meth->uninstantiate(drbg);
```

Use of Zero Initialized Pointer\Path 41:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=896>

Status New

The variable declared in meth at freebsd-src-2/drbg_lib.c in line 103 is not initialized when it is used by meth at freebsd-src-2/drbg_lib.c in line 377.

	Source	Destination
File	freebsd-src-2/drbg_lib.c	freebsd-src-2/drbg_lib.c
Line	127	390
Object	meth	meth

Code Snippet

File Name freebsd-src-2/drbg_lib.c
Method int RAND_DRBG_set(RAND_DRBG *drbg, int type, unsigned int flags)

```
....
127.         drbg->meth = NULL;
```

File Name freebsd-src-2/drbg_lib.c
Method int RAND_DRBG_uninstantiate(RAND_DRBG *drbg)

```
....
390.         drbg->meth->uninstantiate(drbg);
```

Use of Zero Initialized Pointer\Path 42:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=897>
Status New

The variable declared in next at freebsd-src-2/dtstream.c in line 230 is not initialized when it is used by last at freebsd-src-2/dtstream.c in line 230.

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	257	289
Object	next	last

Code Snippet

File Name freebsd-src-2/dtstream.c
Method dt_msg_queue_submit(struct dt_msg_queue* mq, void* buf, size_t len)

```
....
257.         entry->next = NULL;
....
289.         mq->last = entry;
```

Use of Zero Initialized Pointer\Path 43:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=898
Status	New

The variable declared in next at freebsd-src-2/dtstream.c in line 230 is not initialized when it is used by first at freebsd-src-2/dtstream.c in line 230.

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	257	287
Object	next	first

Code Snippet

File Name freebsd-src-2/dtstream.c
Method dt_msg_queue_submit(struct dt_msg_queue* mq, void* buf, size_t len)

```
....  
257.         entry->next = NULL;  
....  
287.         mq->first = entry;
```

Use of Zero Initialized Pointer\Path 44:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=899
Status	New

The variable declared in ep_data at freebsd-src-2/ext2_extents.c in line 1692 is not initialized when it is used by ep_data at freebsd-src-2/ext2_extents.c in line 1692.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1720	1728
Object	ep_data	ep_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_remove_space(struct inode *ip, off_t length, int flags,

```
....  
1720.         path[i].ep_data = NULL;  
....  
1728.         (struct ext4_extent_header  
)path[i].ep_data;
```

Use of Zero Initialized Pointer\Path 45:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=900
Status	New

The variable declared in ep_data at freebsd-src-2/ext2_extents.c in line 575 is not initialized when it is used by ep_data at freebsd-src-2/ext2_extents.c in line 565.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	586	568
Object	ep_data	ep_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_drop_refs(struct ext4_extent_path *path)

```
....
586.                path->ep_data = NULL;
```

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_fill_path_buf(struct ext4_extent_path *path, struct buf *bp)

```
....
568.                KASSERT(path->ep_data != NULL,
```

Use of Zero Initialized Pointer\Path 46:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=901
Status	New

The variable declared in npath at freebsd-src-2/ext2_extents.c in line 1237 is not initialized when it is used by ep_data at freebsd-src-2/ext2_extents.c in line 565.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1247	568
Object	npath	ep_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_insert_extent(struct inode *ip, struct ext4_extent_path *path,

```
....
1247.         npath = NULL;
```

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_fill_path_buf(struct ext4_extent_path *path, struct buf *bp)

```
....
568.         KASSERT(path->ep_data != NULL,
```

Use of Zero Initialized Pointer\Path 47:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=902>

Status New

The variable declared in path at freebsd-src-2/ext2_extents.c in line 1396 is not initialized when it is used by ep_data at freebsd-src-2/ext2_extents.c in line 565.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1413	568
Object	path	ep_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_get_blocks(struct inode *ip, e4fs_daddr_t iblk,

```
....
1413.         path = NULL;
```

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_fill_path_buf(struct ext4_extent_path *path, struct buf *bp)

```
....
568.         KASSERT(path->ep_data != NULL,
```

Use of Zero Initialized Pointer\Path 48:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=903>

Status New

The variable declared in path at freebsd-src-2/ext2_extents.c in line 1396 is not initialized when it is used by ep_data at freebsd-src-2/ext2_extents.c in line 550.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1413	554
Object	path	ep_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_get_blocks(struct inode *ip, e4fs_daddr_t iblk,

```
....
1413.         path = NULL;
```

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_fill_path_bdata(struct ext4_extent_path *path,

```
....
554.         KASSERT(path->ep_data == NULL,
```

Use of Zero Initialized Pointer\Path 49:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=904>

Status New

The variable declared in ep_data at freebsd-src-2/ext2_extents.c in line 575 is not initialized when it is used by ep_data at freebsd-src-2/ext2_extents.c in line 550.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	586	554
Object	ep_data	ep_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_drop_refs(struct ext4_extent_path *path)

```
....
586.         path->ep_data = NULL;
```

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_fill_path_bdata(struct ext4_extent_path *path,

```
....
554.          KASSERT(path->ep_data == NULL,
```

Use of Zero Initialized Pointer\Path 50:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=905
Status	New

The variable declared in npath at freebsd-src-2/ext2_extents.c in line 1237 is not initialized when it is used by ep_data at freebsd-src-2/ext2_extents.c in line 550.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1247	554
Object	npath	ep_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_insert_extent(struct inode *ip, struct ext4_extent_path *path,

```
....
1247.          npath = NULL;
```

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_fill_path_bdata(struct ext4_extent_path *path,

```
....
554.          KASSERT(path->ep_data == NULL,
```

Memory Leak

Query Path:
CPP\Cx\CPP Medium Threat\Memory Leak Version:1

Categories

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

Description

Memory Leak\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=771
Status	New

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	451	451
Object	item	item

Code Snippet

File Name freebsd-src-2/dtstream.c

Method int dt_io_thread_register_queue(struct dt_io_thread* dtio,

```
....  
451.      struct dt_io_list_item* item = malloc(sizeof(*item));
```

Memory Leak\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=772>

Status New

	Source	Destination
File	freebsd-src-2/val_neg.c	freebsd-src-2/val_neg.c
Line	88	88
Object	neg	neg

Code Snippet

File Name freebsd-src-2/val_neg.c

Method struct val_neg_cache* val_neg_create(struct config_file* cfg, size_t maxiter)

```
....  
88.      struct val_neg_cache* neg = (struct val_neg_cache*)calloc(1,
```

Memory Leak\Path 3:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=773>

Status New

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	408	408
Object	ad	ad

Code Snippet

File Name frebsd-src-2/cachedump.c

Method move_into_cache(struct ub_packed_rrset_key* k,

```
....  
408.               ad = (struct packed_rrset_data*)malloc(s);
```

Memory Leak\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=774>

Status New

	Source	Destination
File	frebsd-src-2/diff.c	frebsd-src-2/diff.c
Line	374	374
Object	p	p

Code Snippet

File Name frebsd-src-2/diff.c

Method main(int argc, char **argv)

```
....  
374.               if (env != NULL && *env != '\0' && (p = strdup(env)))  
{
```

Memory Leak\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=775>

Status New

	Source	Destination
File	frebsd-src-2/dtstream.c	frebsd-src-2/dtstream.c
Line	361	361
Object	socket_path	socket_path

Code Snippet

File Name frebsd-src-2/dtstream.c

Method int dt_io_thread_apply_cfg(struct dt_io_thread* dtio, struct config_file *cfg)

```
....  
361.               dtio->socket_path = strdup(nm);
```

Memory Leak\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=776
Status	New

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	374	374
Object	ip_str	ip_str

Code Snippet

File Name freebsd-src-2/dtstream.c

Method int dt_io_thread_apply_cfg(struct dt_io_thread* dtio, struct config_file *cfg)

```
....  
374.                dtio->ip_str = strdup(cfg->dnstap_ip);
```

Memory Leak\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=777
Status	New

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	386	386
Object	tls_server_name	tls_server_name

Code Snippet

File Name freebsd-src-2/dtstream.c

Method int dt_io_thread_apply_cfg(struct dt_io_thread* dtio, struct config_file *cfg)

```
....  
386.                dtio->tls_server_name = strdup(
```

Memory Leak\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=778
Status	New

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	399	399
Object	client_key_file	client_key_file

Code Snippet

File Name freebsd-src-2/dtstream.c

Method int dt_io_thread_apply_cfg(struct dt_io_thread* dtio, struct config_file *cfg)

```
....  
399. dtio->client_key_file = strdup(
```

Memory Leak\Path 9:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=779>

Status New

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	415	415
Object	client_cert_file	client_cert_file

Code Snippet

File Name freebsd-src-2/dtstream.c

Method int dt_io_thread_apply_cfg(struct dt_io_thread* dtio, struct config_file *cfg)

```
....  
415. dtio->client_cert_file = strdup(
```

Memory Leak\Path 10:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=780>

Status New

	Source	Destination
File	freebsd-src-2/est.c	freebsd-src-2/est.c
Line	1202	1202
Object	fp	fp

Code Snippet

File Name frebsd-src-2/est.c
Method est_msr_info(device_t dev, uint64_t msr, freq_info **freqs, size_t *freqslen)

```
....  
1202.          fp = malloc(sizeof(freq_info) * 2, M_DEVBUF, M_WAITOK |  
M_ZERO);
```

Memory Leak\Path 11:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=781>
Status New

	Source	Destination
File	frebsd-src-2/if_cpsw.c	frebsd-src-2/if_cpsw.c
Line	869	869
Object	nullpad	nullpad

Code Snippet

File Name frebsd-src-2/if_cpsw.c
Method cpsw_attach(device_t dev)

```
....  
869.          sc->>nullpad = malloc(ETHER_MIN_LEN, M_DEVBUF, M_WAITOK |  
M_ZERO);
```

Memory Leak\Path 12:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=782>
Status New

	Source	Destination
File	frebsd-src-2/if_fwe.c	frebsd-src-2/if_fwe.c
Line	309	309
Object	bulkxfer	bulkxfer

Code Snippet

File Name frebsd-src-2/if_fwe.c
Method fwe_init(void *arg)

```
....  
309.          xferq->bulkxfer = (struct fw_bulkxfer *) malloc(
```

Memory Leak\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=783
Status	New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2740	2740
Object	ip6po_pktinfo	ip6po_pktinfo

Code Snippet

File Name freebsd-src-2/ip6_output.c
Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....  
2740.          dst->ip6po_pktinfo = malloc(sizeof(*dst-  
>ip6po_pktinfo),
```

Memory Leak\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=784
Status	New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2747	2747
Object	ip6po_nexthop	ip6po_nexthop

Code Snippet

File Name freebsd-src-2/ip6_output.c
Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....  
2747.          dst->ip6po_nexthop = malloc(src->ip6po_nexthop-  
>sa_len,
```

Memory Leak\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=785
Status	New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2754	2754
Object	ip6po_hbh	ip6po_hbh

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....  
2754.          PKTOPT_EXTHDRCPY(ip6po_hbh);
```

Memory Leak\Path 16:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=786>

Status New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2755	2755
Object	ip6po_dest1	ip6po_dest1

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....  
2755.          PKTOPT_EXTHDRCPY(ip6po_dest1);
```

Memory Leak\Path 17:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=787>

Status New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2756	2756
Object	ip6po_dest2	ip6po_dest2

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method copyktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....
2756.          PKTOPT_EXTHDRCPY(ip6po_dest2);
```

Memory Leak\Path 18:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=788>

Status New

	Source	Destination
File	frebsd-src-2/ip6_output.c	frebsd-src-2/ip6_output.c
Line	2757	2757
Object	ip6po_rthdr	ip6po_rthdr

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method copyktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....
2757.          PKTOPT_EXTHDRCPY(ip6po_rthdr); /* not copy the cached route
*/
```

Memory Leak\Path 19:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=789>

Status New

	Source	Destination
File	frebsd-src-2/ip6_output.c	frebsd-src-2/ip6_output.c
Line	2981	2981
Object	ip6po_pktinfo	ip6po_pktinfo

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....
2981.          opt->ip6po_pktinfo = malloc(sizeof(*pktinfo),
```

Memory Leak\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=790
Status	New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	3069	3069
Object	ip6po_nexthop	ip6po_nexthop

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....  
3069.                opt->ip6po_nexthop = malloc(*buf, M_IP6OPT, M_NOWAIT);
```

Memory Leak\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=791
Status	New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	3107	3107
Object	ip6po_hbh	ip6po_hbh

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....  
3107.                opt->ip6po_hbh = malloc(hbhlen, M_IP6OPT, M_NOWAIT);
```

Memory Leak\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=792
Status	New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	3216	3216
Object	ip6po_rthdr	ip6po_rthdr

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....
3216.          opt->ip6po_rthdr = malloc(rthlen, M_IP6OPT, M_NOWAIT);
```

Memory Leak\Path 23:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=793>

Status New

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	1137	1137
Object	c	c

Code Snippet

File Name freebsd-src-2/protocol.c

Method kcm_op_set_default_cache(krb5_context context,

```
....
1137.          c = malloc(sizeof(*c));
```

Memory Leak\Path 24:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=794>

Status New

	Source	Destination
File	freebsd-src-2/protocol.c	freebsd-src-2/protocol.c
Line	1142	1142
Object	name	name

Code Snippet

File Name frebsd-src-2/protocol.c
Method kcm_op_set_default_cache(krb5_context context,

```
....  
1142.           c->name = strdup(name);
```

Memory Leak\Path 25:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=795>
Status New

	Source	Destination
File	frebsd-src-2/rt2860.c	frebsd-src-2/rt2860.c
Line	463	463
Object	rvp	rvp

Code Snippet

File Name frebsd-src-2/rt2860.c
Method rt2860_vap_create(struct ieee80211com *ic, const char name[IFNAMSIZ], int unit,

```
....  
463.           rvp = malloc(sizeof(struct rt2860_vap), M_80211_VAP,  
M_WAITOK | M_ZERO);
```

Memory Leak\Path 26:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=796>
Status New

	Source	Destination
File	frebsd-src-2/rtsol.c	frebsd-src-2/rtsol.c
Line	346	346
Object	rai	rai

Code Snippet

File Name frebsd-src-2/rtsol.c
Method rtsol_input(int sock)

```
....  
346.           ELM_MALLOC(rai, exit(1));
```

Memory Leak\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=797
Status	New

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	436	436
Object	rao_msg	rao_msg

Code Snippet

File Name freebsd-src-2/rtsol.c
Method rtsol_input(int sock)

```
....  
436.                                rao->rao_msg = strdup(nsbuf);
```

Memory Leak\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=798
Status	New

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	495	495
Object	rao_msg	rao_msg

Code Snippet

File Name freebsd-src-2/rtsol.c
Method rtsol_input(int sock)

```
....  
495.                                rao->rao_msg = strdup(dname);
```

Memory Leak\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=799
Status	New

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	584	584
Object	smp3	smp3

Code Snippet

File Name freebsd-src-2/rtsol.c
Method ra_opt_handler(struct ifinfo *ifi)

```
....
584.                                ELM_MALLOC(smp3, goto free2);
```

Memory Leak\Path 30:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=800>
Status New

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	621	621
Object	smp3	smp3

Code Snippet

File Name freebsd-src-2/rtsol.c
Method ra_opt_handler(struct ifinfo *ifi)

```
....
621.                                ELM_MALLOC(smp3, goto free2);
```

Memory Leak\Path 31:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=801>
Status New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1496	1496
Object	dirp	dirp

Code Snippet

File Name frebsd-src-2/scp.c
Method rsource(char *name, struct stat *statp)

```
....  
1496.           if (!(dirp = opendir(name))) {
```

Memory Leak\Path 32:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=802>
Status New

	Source	Destination
File	frebsd-src-2/subst.c	frebsd-src-2/subst.c
Line	63	63
Object	subst	subst

Code Snippet

File Name frebsd-src-2/subst.c
Method init_substitution(struct bsdtar *bsdtar)

```
....  
63.   bsdtar->substitution = subst = malloc(sizeof(*subst));
```

Memory Leak\Path 33:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=803>
Status New

	Source	Destination
File	frebsd-src-2/subst.c	frebsd-src-2/subst.c
Line	83	83
Object	rule	rule

Code Snippet

File Name frebsd-src-2/subst.c
Method add_substitution(struct bsdtar *bsdtar, const char *rule_text)

```
....  
83.   rule = malloc(sizeof(*rule));
```

Memory Leak\Path 34:

Severity Medium

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=804
Status	New

	Source	Destination
File	freebsd-src-2/subst.c	freebsd-src-2/subst.c
Line	119	119
Object	result	result

Code Snippet

File Name freebsd-src-2/subst.c

Method add_substitution(struct bsdtar *bsdtar, const char *rule_text)

```
....  
119.         rule->result = malloc(end_pattern - start_subst + 1);
```

Memory Leak\Path 35:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=805
Status	New

	Source	Destination
File	freebsd-src-2/subst.c	freebsd-src-2/subst.c
Line	177	177
Object	new_str	new_str

Code Snippet

File Name freebsd-src-2/subst.c

Method realloc_strncat(char **str, const char *append, size_t len)

```
....  
177.         new_str = malloc(old_len + len + 1);
```

Memory Leak\Path 36:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=806
Status	New

	Source	Destination
File	freebsd-src-2/t_recvmmsg.c	freebsd-src-2/t_recvmmsg.c

Line	82	82
Object	buf	buf

Code Snippet

File Name frebsd-src-2/t_recvmmsg.c
Method ATF_TC_BODY(recvmmsg_basic, tc)

```
....  
82.      buf = malloc(BUFSIZE);
```

Memory Leak\Path 37:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=807>
Status New

	Source	Destination
File	frebsd-src-2/t_recvmmsg.c	frebsd-src-2/t_recvmmsg.c
Line	86	86
Object	mmsghdr	mmsghdr

Code Snippet

File Name frebsd-src-2/t_recvmmsg.c
Method ATF_TC_BODY(recvmmsg_basic, tc)

```
....  
86.      mmsghdr = malloc(sizeof(*mmsghdr) * mmsgcnt);
```

Memory Leak\Path 38:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=808>
Status New

	Source	Destination
File	frebsd-src-2/t_recvmmsg.c	frebsd-src-2/t_recvmmsg.c
Line	88	88
Object	iov	iov

Code Snippet

File Name frebsd-src-2/t_recvmmsg.c
Method ATF_TC_BODY(recvmmsg_basic, tc)

```
....  
88.     iov = malloc(sizeof(*iov) * mmsgcnt);
```

Memory Leak\Path 39:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=809
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	537	537
Object	argv	argv

Code Snippet

File Name freebsd-src-2/telnet.c
Method mklist(char *buf, char *name)

```
....  
537.     argv = (char **)malloc((n+3)*sizeof(char *));
```

Memory Leak\Path 40:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=810
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	4087	4087
Object	testprg	testprg

Code Snippet

File Name freebsd-src-2/test_main.c
Method main(int argc, char **argv)

```
....  
4087.     testprg = malloc(testprg_len);
```

Memory Leak\Path 41:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=811
Status	New

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	508	508
Object	chanlist	chanlist

Code Snippet

File Name freebsd-src-2/wlan_sys.c

Method wlan_get_driver_caps(struct wlan_iface *wif)

```
....  
508.          wif->chanlist = (struct ieee80211_channel *)malloc(argsize);
```

Memory Leak\Path 42:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=812>

Status New

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	2523	2523
Object	data	data

Code Snippet

File Name freebsd-src-2/wlan_sys.c

Method wlan_get_mac_acl_macs(struct wlan_iface *wif)

```
....  
2523.          if ((data = (uint8_t *)malloc(argsize)) == NULL)
```

Memory Leak\Path 43:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=813>

Status New

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2535	2535

Object	pktopt	pktopt
--------	--------	--------

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_pcbopt(int optname, u_char *buf, int len, struct ip6_pktopts **pktopt,

```
.....
2535.                *pktopt = malloc(sizeof(struct ip6_pktopts), M_IP6OPT,
```

Memory Leak\Path 44:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=814>

Status New

	Source	Destination
File	frebsd-src-2/ip6_output.c	frebsd-src-2/ip6_output.c
Line	3174	3174
Object	newdest	newdest

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
.....
3174.                *newdest = malloc(destlen, M_IP6OPT, M_NOWAIT);
```

Memory Leak\Path 45:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=815>

Status New

	Source	Destination
File	frebsd-src-2/maketab.c	frebsd-src-2/maketab.c
Line	165	165
Object	names	names

Code Snippet

File Name frebsd-src-2/maketab.c

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

```
....
165.          names[tok-FIRSTTOKEN] = strdup(name);
```

Wrong Size t Allocation

Query Path:

CPP\Cx\CPP Integer Overflow\Wrong Size t Allocation Version:0

[Description](#)

Wrong Size t Allocation\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=360
Status	New

The function s in freebsd-src-2/cachedump.c at line 381 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	408	408
Object	s	s

Code Snippet

File Name freebsd-src-2/cachedump.c
Method move_into_cache(struct ub_packed_rrset_key* k,

```
....
408.          ad = (struct packed_rrset_data*)malloc(s);
```

Wrong Size t Allocation\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=361
Status	New

The function len in freebsd-src-2/cap_sendmsg.c at line 126 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/cap_sendmsg.c	freebsd-src-2/cap_sendmsg.c
Line	153	153
Object	len	len

Code Snippet

File Name freebsd-src-2/cap_sendmsg.c

Method probe_defrouters(uint32_t ifindex, uint32_t linkid)

```
....  
153.         buf = malloc(len);
```

Wrong Size t Allocation\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=362
Status	New

The function sz in freebsd-src-2/krb5_mech.c at line 158 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	163	163
Object	sz	sz

Code Snippet

File Name freebsd-src-2/krb5_mech.c
Method get_data(const uint8_t **pp, size_t *lenp, struct krb5_data *dp)

```
....  
163.         dp->kd_data = malloc(sz, M_GSSAPI, M_WAITOK);
```

Wrong Size t Allocation\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=363
Status	New

The function mem_sz in freebsd-src-2/tcp_usrreq.c at line 1925 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/tcp_usrreq.c	freebsd-src-2/tcp_usrreq.c
Line	1967	1967
Object	mem_sz	mem_sz

Code Snippet

File Name freebsd-src-2/tcp_usrreq.c
Method tcp_set_cc_mod(struct inpcb *inp, struct sockopt *sopt)

```
.....
1967.                ptr = malloc(mem_sz, M_CC_MEM, M_WAITOK);
```

Wrong Size t Allocation\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=364
Status	New

The function argsize in freebsd-src-2/wlan_sys.c at line 488 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	508	508
Object	argsize	argsize

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_get_driver_caps(struct wlan_iface *wif)

```
.....
508.                wif->chanlist = (struct ieee80211_channel *)malloc(argsize);
```

Wrong Size t Allocation\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=365
Status	New

The function argsize in freebsd-src-2/wlan_sys.c at line 587 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	598	598
Object	argsize	argsize

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_get_channel_list(struct wlan_iface *wif)


```
....  
598.         chaninfo = (struct ieee80211req_chaninfo *)malloc(argsize);
```

Wrong Size t Allocation\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=366
Status	New

The function argsize in freebsd-src-2/wlan_sys.c at line 2489 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	2523	2523
Object	argsize	argsize

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_get_mac_acl_macs(struct wlan_iface *wif)

```
....  
2523.         if ((data = (uint8_t *)malloc(argsize)) == NULL)
```

Wrong Size t Allocation\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=367
Status	New

The function npos in freebsd-src-2/cut.c at line 225 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c
Line	237	237
Object	npos	npos

Code Snippet

File Name freebsd-src-2/cut.c
Method needpos(size_t n)

```
.....  
237.                if ((positions = realloc(positions, npos)) == NULL)
```

Wrong Size t Allocation\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=368
Status	New

The function `actual_count` in `freebsd-src-2/test_main.c` at line 1199 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1248	1248
Object	actual_count	actual_count

Code Snippet

File Name `freebsd-src-2/test_main.c`
Method `assertion_file_contains_lines_any_order(const char *file, int line,`

```
.....  
1248.                actual = calloc(sizeof(char *), actual_count);
```

Wrong Size t Allocation\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=369
Status	New

The function `buff_size` in `freebsd-src-2/test_main.c` at line 3656 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3666	3666
Object	buff_size	buff_size

Code Snippet

File Name `freebsd-src-2/test_main.c`
Method `get_refdir(const char *d)`

```
.....
3666.         buff = calloc(buff_size, 1);
```

Wrong Size t Allocation\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=370
Status	New

The function tried_size in freebsd-src-2/test_main.c at line 3656 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3674	3674
Object	tried_size	tried_size

Code Snippet

File Name freebsd-src-2/test_main.c
Method get_refdir(const char *d)

```
.....
3674.         tried = calloc(tried_size, 1);
```

Wrong Size t Allocation\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=371
Status	New

The function argsize in freebsd-src-2/diff.c at line 469 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/diff.c	freebsd-src-2/diff.c
Line	475	475
Object	argsize	argsize

Code Snippet

File Name freebsd-src-2/diff.c
Method set_argstr(char **av, char **ave)

```
....  
475.          diffargs = xmalloc(argsize);
```

Wrong Size t Allocation\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=372
Status	New

The function need in freebsd-src-2/scp.c at line 1648 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1816	1816
Object	need	need

Code Snippet

File Name freebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
....  
1816.          namebuf = xmalloc(need);
```

Wrong Size t Allocation\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=373
Status	New

The function newsize in freebsd-src-2/glob.c at line 675 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/glob.c	freebsd-src-2/glob.c
Line	682	682
Object	newsize	newsize

Code Snippet

File Name freebsd-src-2/glob.c
Method globextend(const char *path, glob_t *pglob)

```
....  
682.      pathv = xrealloc(pglob->gl_pathv, newsize);
```

Wrong Size t Allocation\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=374
Status	New

The function lbufen in freebsd-src-2/cut.c at line 388 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c
Line	403	403
Object	lbufen	lbufen

Code Snippet

File Name freebsd-src-2/cut.c
Method f_cut(FILE *fp, const char *fname)

```
....  
403.      mlbuf = malloc(lbufen + 1);
```

Wrong Size t Allocation\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=375
Status	New

The function dirlen in freebsd-src-2/http-server.c at line 159 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	235	235
Object	dirlen	dirlen

Code Snippet

File Name freebsd-src-2/http-server.c
Method send_document_cb(struct evhttp_request *req, void *arg)

```
....  
235.          pattern = malloc(dirlen+3);
```

Wrong Size t Allocation\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=376
Status	New

The function len in freebsd-src-2/t_vnops.c at line 529 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	544	544
Object	len	len

Code Snippet

File Name freebsd-src-2/t_vnops.c
Method create_nametoolong(const atf_tc_t *tc, const char *mp)

```
....  
544.          name = malloc(len+1);
```

Wrong Size t Allocation\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=377
Status	New

The function len in freebsd-src-2/t_vnops.c at line 590 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	608	608
Object	len	len

Code Snippet

File Name freebsd-src-2/t_vnops.c
Method rename_nametoolong(const atf_tc_t *tc, const char *mp)

```
....  
608.         name = malloc(len+1);
```

Wrong Size t Allocation\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=378
Status	New

The function len in freebsd-src-2/t_vnops.c at line 642 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	651	651
Object	len	len

Code Snippet

File Name freebsd-src-2/t_vnops.c
Method symlink_len(const atf_tc_t *tc, const char *mp, size_t len)

```
....  
651.         buf = malloc(len + 1);
```

Wrong Size t Allocation\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=379
Status	New

The function expected_count in freebsd-src-2/test_main.c at line 1199 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1225	1225
Object	expected_count	expected_count

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_file_contains_lines_any_order(const char *file, int line,

```
.....
1225.                expected = malloc(sizeof(char *) * expected_count);
```

Wrong Size t Allocation\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=380
Status	New

The function len in freebsd-src-2/test_main.c at line 1736 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1833	1833
Object	len	len

Code Snippet

File Name freebsd-src-2/test_main.c
Method is_symlink(const char *file, int line,

```
.....
1833.                linknamew = malloc(len + sizeof(wchar_t));
```

Wrong Size t Allocation\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=381
Status	New

The function len in freebsd-src-2/test_main.c at line 1736 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1845	1845
Object	len	len

Code Snippet

File Name freebsd-src-2/test_main.c
Method is_symlink(const char *file, int line,


```
.....
1845.          contentsw = malloc(len + sizeof(wchar_t));
```

Wrong Size t Allocation\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=382
Status	New

The function size in freebsd-src-2/test_main.c at line 2809 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	2841	2841
Object	size	size

Code Snippet

File Name freebsd-src-2/test_main.c
Method sunacl_get(int cmd, int *aclcnt, int fd, const char *path)

```
.....
2841.          aclp = malloc(cnt * size);
```

Wrong Size t Allocation\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=383
Status	New

The function size in freebsd-src-2/test_main.c at line 2809 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	2843	2843
Object	size	size

Code Snippet

File Name freebsd-src-2/test_main.c
Method sunacl_get(int cmd, int *aclcnt, int fd, const char *path)

```
....  
2843.                                aclp = realloc(NULL, cnt * size);
```

Wrong Size t Allocation\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=384
Status	New

The function i in freebsd-src-2/test_main.c at line 1199 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1234	1234
Object	i	i

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_file_contains_lines_any_order(const char *file, int line,

```
....  
1234.                                expected[i] = strdup(lines[i]);
```

Wrong Size t Allocation\Path 26:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=385
Status	New

The function chars in freebsd-src-2/sh.glob.c at line 393 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/sh.glob.c	freebsd-src-2/sh.glob.c
Line	408	408
Object	chars	chars

Code Snippet

File Name freebsd-src-2/sh.glob.c
Method handleone(Char *str, Char **vl, int action)

```
....  
408.          str = xmalloc(chars * sizeof(Char));
```

Wrong Size t Allocation\Path 27:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=386
Status	New

The function nslash in freebsd-src-2/scp.c at line 1302 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1314	1314
Object	nslash	nslash

Code Snippet

File Name freebsd-src-2/scp.c
Method prepare_remote_path(struct sftp_conn *conn, const char *path)

```
....  
1314.          return xstrdup(path + 2 + nslash);
```

Wrong Size t Allocation\Path 28:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=387
Status	New

The function i in freebsd-src-2/session.c at line 294 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	303	303
Object	i	i

Code Snippet

File Name freebsd-src-2/session.c
Method set_fwdpermit_from_authopts(struct ssh *ssh, const struct sshauthopt *opts)

```
.....
303.                                tmp = cp = xstrdup(auth_opts->permitopen[i]);
```

Wrong Size t Allocation\Path 29:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=388
Status	New

The function i in freebsd-src-2/session.c at line 294 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	318	318
Object	i	i

Code Snippet

File Name freebsd-src-2/session.c
Method set_fwdpermit_from_authopts(struct ssh *ssh, const struct sshauthopt *opts)

```
.....
318.                                tmp = cp = xstrdup(auth_opts->permitlisten[i]);
```

Wrong Size t Allocation\Path 30:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=389
Status	New

The function n in freebsd-src-2/session.c at line 982 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1121	1121
Object	n	n

Code Snippet

File Name freebsd-src-2/session.c
Method do_setup_env(struct ssh *ssh, Session *s, const char *shell)

```
....
1121.                ocp = xstrdup(auth_opts->env[n]);
```

Wrong Size t Allocation\Path 31:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=390
Status	New

The function `old_len` in `freebsd-src-2/subst.c` at line 167 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/subst.c	freebsd-src-2/subst.c
Line	177	177
Object	old_len	old_len

Code Snippet

File Name `freebsd-src-2/subst.c`
Method `realloc_strncat(char **str, const char *append, size_t len)`

```
....
177.                new_str = malloc(old_len + len + 1);
```

Wrong Size t Allocation\Path 32:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=391
Status	New

The function `len` in `freebsd-src-2/subst.c` at line 167 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	freebsd-src-2/subst.c	freebsd-src-2/subst.c
Line	177	177
Object	len	len

Code Snippet

File Name `freebsd-src-2/subst.c`
Method `realloc_strncat(char **str, const char *append, size_t len)`

```
....
177.         new_str = malloc(old_len + len + 1);
```

Wrong Size t Allocation\Path 33:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=392
Status	New

The function `old_len` in `freebsd-src-2/subst.c` at line 189 assigns an incorrectly calculated size to a buffer, resulting in a mismatch between the value being written and the size of the buffer it is being written into.

	Source	Destination
File	<code>freebsd-src-2/subst.c</code>	<code>freebsd-src-2/subst.c</code>
Line	199	199
Object	<code>old_len</code>	<code>old_len</code>

Code Snippet

File Name `freebsd-src-2/subst.c`
 Method `realloc_strcat(char **str, const char *append)`

```
....
199.         new_str = malloc(old_len + strlen(append) + 1);
```

Integer Overflow

Query Path:
 CPP\Cx\CPP Integer Overflow\Integer Overflow Version:0

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows
 FISMA 2014: System And Information Integrity
 NIST SP 800-53: SI-10 Information Input Validation (P1)

Description

Integer Overflow\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=398
Status	New

A variable of a larger data type, `AssignExpr`, is being assigned to a smaller data type, in 239 of `freebsd-src-2/a_object.c`. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	<code>freebsd-src-2/a_object.c</code>	<code>freebsd-src-2/a_object.c</code>
Line	258	258

Object	AssignExpr	AssignExpr
--------	------------	------------

Code Snippet

File Name freebsd-src-2/a_object.c

Method ASN1_OBJECT *c2i_ASN1_OBJECT(ASN1_OBJECT **a, const unsigned char **pp,

```
....
258.         length = (int)len;
```

Integer Overflow\Path 2:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=399>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1255 of freebsd-src-2/buffer.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1283	1283
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/buffer.c

Method evbuffer_remove_buffer(struct evbuffer *src, struct evbuffer *dst,

```
....
1283.         result = (int)datlen; /*XXXX should return
ev_ssize_t*/
```

Integer Overflow\Path 3:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=400>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1255 of freebsd-src-2/buffer.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1337	1337
Object	AssignExpr	AssignExpr

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_remove_buffer(struct evbuffer *src, struct evbuffer *dst,

```
....  
1337.            result = (int)nread;/*XXXX should change return type */
```

Integer Overflow\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=401>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 2271 of frebsd-src-2/buffer.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	2331	2331
Object	AssignExpr	AssignExpr

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_read(struct evbuffer *buf, evutil_socket_t fd, int howmuch)

```
....  
2331.                                    n = bytesRead;
```

Integer Overflow\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=402>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 2403 of frebsd-src-2/buffer.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	2444	2444
Object	AssignExpr	AssignExpr

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_write_iovec(struct evbuffer *buffer, evutil_socket_t fd,


```
.....
2444.                n = bytesSent;
```

Integer Overflow\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=403
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1081 of freebsd-src-2/crypto_wolfssl.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/crypto_wolfssl.c	freebsd-src-2/crypto_wolfssl.c
Line	1096	1096
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/crypto_wolfssl.c
Method int crypto_bignum_to_bin(const struct crypto_bignum *a,

```
.....
1096.                offset = padlen - num_bytes;
```

Integer Overflow\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=404
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 340 of freebsd-src-2/cut.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c
Line	349	349
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/cut.c
Method c_cut(FILE *fp, const char *fname)

```
.....
349.                for (col = maxval; col; --col) {
```

Integer Overflow\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=405
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 388 of freebsd-src-2/cut.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c
Line	434	434
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/cut.c
Method f_cut(FILE *fp, const char *fname)

```
....  
434.             for (field = maxval, p = lbuf; field; --field, ++pos)  
{
```

Integer Overflow\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=406
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 129 of freebsd-src-2/diff.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/diff.c	freebsd-src-2/diff.c
Line	174	174
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/diff.c
Method main(int argc, char **argv)

```
....  
174.             diff_context = (int)1;
```

Integer Overflow\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=407

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=407
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 129 of freebsd-src-2/diff.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/diff.c	freebsd-src-2/diff.c
Line	273	273
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/diff.c
Method main(int argc, char **argv)

```
....  
273.                                diff_context = (int)1;
```

Integer Overflow\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=408
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 678 of freebsd-src-2/e_aria.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	739	739
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/e_aria.c
Method static int aria_ccm_cipher(EVP_CIPHER_CTX *ctx, unsigned char *out,

```
....  
739.                                rv = len;
```

Integer Overflow\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=409
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 393 of freebsd-src-2/e_aria.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	426	426
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/e_aria.c

Method static int aria_gcm_tls_cipher(EVP_CIPHER_CTX *ctx, unsigned char *out,

```
....  
426.         rv = len + EVP_GCM_TLS_EXPLICIT_IV_LEN +  
EVP_GCM_TLS_TAG_LEN;
```

Integer Overflow\Path 13:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=410>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 393 of freebsd-src-2/e_aria.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/e_aria.c	freebsd-src-2/e_aria.c
Line	440	440
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/e_aria.c

Method static int aria_gcm_tls_cipher(EVP_CIPHER_CTX *ctx, unsigned char *out,

```
....  
440.         rv = len;
```

Integer Overflow\Path 14:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=411>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 65 of freebsd-src-2/e_rc4_hmac_md5.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/e_rc4_hmac_md5.c	freebsd-src-2/e_rc4_hmac_md5.c
Line	143	143
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/e_rc4_hmac_md5.c

Method static int rc4_hmac_md5_cipher(EVP_CIPHER_CTX *ctx, unsigned char *out,

```
....  
143.          l = (key->md.Nl + (blocks << 3)) & 0xffffffffU;
```

Integer Overflow\Path 15:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=412>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1550 of freebsd-src-2/ext2_extents.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1584	1584
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_rm_leaf(struct inode *ip, struct ext4_extent_path *path,

```
....  
1584.          a = ex_blk > start ? ex_blk : start;
```

Integer Overflow\Path 16:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=413>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1550 of freebsd-src-2/ext2_extents.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1585	1585

Object	AssignExpr	AssignExpr
--------	------------	------------

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_rm_leaf(struct inode *ip, struct ext4_extent_path *path,

```
....
1585.                b = (uint64_t)ex_blk + ex_len - 1 <
```

Integer Overflow\Path 17:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=414>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1550 of freebsd-src-2/ext2_extents.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1592	1592
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_rm_leaf(struct inode *ip, struct ext4_extent_path *path,

```
....
1592.                block = ex_blk;
```

Integer Overflow\Path 18:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=415>

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1550 of freebsd-src-2/ext2_extents.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1599	1599
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_rm_leaf(struct inode *ip, struct ext4_extent_path *path,

```
....  
1599.                block = ex_blk;
```

Integer Overflow\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=416
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1399 of freebsd-src-2/krb5_mech.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1431	1431
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/krb5_mech.c
Method krb5_wrap_new(struct krb5_context *kc, int conf_req_flag,

```
....  
1431.                EC = mlen % mblen;
```

Integer Overflow\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=417
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1399 of freebsd-src-2/krb5_mech.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1468	1468
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/krb5_mech.c
Method krb5_wrap_new(struct krb5_context *kc, int conf_req_flag,

```
....  
1468.                EC = cklen;
```

Integer Overflow\Path 21:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=418
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 455 of freebsd-src-2/mem_dbg.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/mem_dbg.c	freebsd-src-2/mem_dbg.c
Line	532	532
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/mem_dbg.c
Method static void print_leak(const MEM *m, MEM_LEAK *l)

```
....  
532.             buf_len = ami_cnt + n;
```

Integer Overflow\Path 22:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=419
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1648 of freebsd-src-2/scp.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1891	1891
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
....  
1891.             amt -= j;
```

Integer Overflow\Path 23:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=420

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=420
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 227 of freebsd-src-2/sh.glob.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/sh.glob.c	freebsd-src-2/sh.glob.c
Line	258	258
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/sh.glob.c
Method expbrace(Char ***nvp, Char ***elp, int size)

```
....
258.          size += GLOBSpace > 1 ? GLOBSpace : 1;
```

Integer Overflow\Path 24:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=421
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 2489 of freebsd-src-2/wlan_sys.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	2530	2530
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_get_mac_acl_macs(struct wlan_iface *wif)

```
....
2530.          nacls = argsize / sizeof(*acllist);
```

Integer Overflow\Path 25:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=422
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 3036 of freebsd-src-2/wlan_sys.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	3049	3049
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_mesh_get_routelist(struct wlan_iface *wif)

```
....
3049.          nroutes = argsize / sizeof(*rt);
```

Double Free

Query Path:

CPP\Cx\CPP Medium Threat\Double Free Version:1

Categories

NIST SP 800-53: SI-16 Memory Protection (P1)

Description

Double Free\Path 1:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=740>
Status New

	Source	Destination
File	freebsd-src-2/acpi_thermal.c	freebsd-src-2/acpi_thermal.c
Line	985	985
Object	sc	sc

Code Snippet

File Name freebsd-src-2/acpi_thermal.c
Method acpi_tz_thread(void *arg)

```
....
985.          free(sc, M_TEMP);
```

Double Free\Path 2:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=741>
Status New

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1761	1777
Object	M_EXT2EXTENTS	M_EXT2EXTENTS

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_remove_space(struct inode *ip, off_t length, int flags,

```
.....
1761.                free(path[i].ep_data, M_EXT2EXTENTS);
.....
1777.    free(path, M_EXT2EXTENTS);
```

Double Free\Path 3:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=742>

Status New

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1719	1777
Object	M_EXT2EXTENTS	M_EXT2EXTENTS

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_remove_space(struct inode *ip, off_t length, int flags,

```
.....
1719.                free(path[i].ep_data, M_EXT2EXTENTS);
.....
1777.    free(path, M_EXT2EXTENTS);
```

Double Free\Path 4:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=743>

Status New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	967	977

Object	cp	cp
--------	----	----

Code Snippet

File Name frebsd-src-2/scp.c

Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
....  
967.                    free (cp) ;  
....  
977.                    free (cp) ;
```

Double Free\Path 5:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=744>

Status New

	Source	Destination
File	frebsd-src-2/scp.c	frebsd-src-2/scp.c
Line	967	989
Object	cp	cp

Code Snippet

File Name frebsd-src-2/scp.c

Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
....  
967.                    free (cp) ;  
....  
989.                    free (cp) ;
```

Double Free\Path 6:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=745>

Status New

	Source	Destination
File	frebsd-src-2/scp.c	frebsd-src-2/scp.c
Line	977	989
Object	cp	cp

Code Snippet

File Name frebsd-src-2/scp.c

Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
.....
977.                free(cp);
.....
989.                free(cp);
```

Double Free\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=746
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	989	992
Object	cp	cp

Code Snippet

File Name freebsd-src-2/scp.c
Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
.....
989.                free(cp);
.....
992.                free(cp);
```

Double Free\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=747
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	967	992
Object	cp	cp

Code Snippet

File Name freebsd-src-2/scp.c
Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
.....
967.                free(cp);
.....
992.                free(cp);
```

Double Free\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=748
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	977	992
Object	cp	cp

Code Snippet

File Name freebsd-src-2/scp.c

Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
....  
977.                free(cp);  
....  
992.                free(cp);
```

Double Free\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=749
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1125	1131
Object	bp	bp

Code Snippet

File Name freebsd-src-2/scp.c

Method toremote(int argc, char **argv, enum scp_mode_e mode, char *sftp_direct)

```
....  
1125.                free(bp);  
....  
1131.                free(bp);
```

Double Free\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=749

Status	88&pathid=750 New
--------	--

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1205	1205
Object	bp	bp

Code Snippet

File Name freebsd-src-2/scp.c

Method toremote(int argc, char **argv, enum scp_mode_e mode, char *sftp_direct)

```
....  
1205.                                free(bp);
```

Double Free\Path 12:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=751>

Status New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1063	1217
Object	host	host

Code Snippet

File Name freebsd-src-2/scp.c

Method toremote(int argc, char **argv, enum scp_mode_e mode, char *sftp_direct)

```
....  
1063.                                free(host);  
....  
1217.                                free(host);
```

Double Free\Path 13:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=752>

Status New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c

Line	1064	1218
Object	src	src

Code Snippet

File Name frebsd-src-2/scp.c

Method toremote(int argc, char **argv, enum scp_mode_e mode, char *sftp_direct)

```
....  
1064.           free(src);  
....  
1218.           free(src);
```

Double Free\Path 14:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=753>

Status New

	Source	Destination
File	frebsd-src-2/scp.c	frebsd-src-2/scp.c
Line	1290	1290
Object	bp	bp

Code Snippet

File Name frebsd-src-2/scp.c

Method tolocal(int argc, char **argv, enum scp_mode_e mode, char *sftp_direct)

```
....  
1290.           free(bp);
```

Double Free\Path 15:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=754>

Status New

	Source	Destination
File	frebsd-src-2/scp.c	frebsd-src-2/scp.c
Line	1233	1295
Object	suser	suser

Code Snippet

File Name frebsd-src-2/scp.c

Method tolocal(int argc, char **argv, enum scp_mode_e mode, char *sftp_direct)


```
.....
1233.                free(suser);
.....
1295.                free(suser);
```

Double Free\Path 16:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=755
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1234	1296
Object	host	host

Code Snippet

File Name freebsd-src-2/scp.c
Method tolocal(int argc, char **argv, enum scp_mode_e mode, char *sftp_direct)

```
.....
1234.                free(host);
.....
1296.                free(host);
```

Double Free\Path 17:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=756
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1235	1297
Object	src	src

Code Snippet

File Name freebsd-src-2/scp.c
Method tolocal(int argc, char **argv, enum scp_mode_e mode, char *sftp_direct)

```
.....
1235.                free(src);
.....
1297.                free(src);
```

Double Free\Path 18:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=757
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	967	1958
Object	cp	patterns

Code Snippet

File Name freebsd-src-2/scp.c
Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
....  
967.                free(cp);
```



File Name freebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
....  
1958.              free(patterns);
```

Double Free\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=758
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	977	1958
Object	cp	patterns

Code Snippet

File Name freebsd-src-2/scp.c
Method brace_expand(const char *pattern, char ***patternsp, size_t *npatternsp)

```
....  
977.                free(cp);
```

File Name frebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
....  
1958.            free(patterns);
```

Double Free\Path 20:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=759>
Status New

	Source	Destination
File	frebsd-src-2/session.c	frebsd-src-2/session.c
Line	957	968
Object	var_name	var_name

Code Snippet

File Name frebsd-src-2/session.c
Method copy_environment_denylist(char **source, char ***env, u_int *envsize,

```
....  
957.                            free(var_name);  
....  
968.                            free(var_name);
```

Double Free\Path 21:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=760>
Status New

	Source	Destination
File	frebsd-src-2/subst.c	frebsd-src-2/subst.c
Line	279	279
Object	Pointer	Pointer

Code Snippet

File Name frebsd-src-2/subst.c
Method apply_substitution(struct bsdtar *bsdtar, const char *name, char **result,

```
....
279.                                free(*result);
```

Use of Uninitialized Variable

Query Path:

CPP\Cx\CPP Medium Threat\Use of Uninitialized Variable Version:0

Categories

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

Description

Use of Uninitialized Variable\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=835
Status	New

	Source	Destination
File	freebsd-src-2/openpic.c	freebsd-src-2/openpic.c
Line	249	253
Object	cpu	cpu

Code Snippet

File Name freebsd-src-2/openpic.c
Method int cpu, ncpu;

```
....
249.                                int cpu, ncpu;
```

File Name freebsd-src-2/openpic.c
Method CPU_FOREACH(cpu) {

```
....
253.                                if (!(mask & (1 << cpu)))
```

Use of Uninitialized Variable\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=836
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c

Line	66	1663
Object	crmod	crmod

Code Snippet

File Name frebsd-src-2/telnet.c
Method crmod,

```
....  
66.      crmod,
```

File Name frebsd-src-2/telnet.c
Method telrcv(void)

```
....  
1663.                                     if (crmod) {
```

Use of Uninitialized Variable\Path 3:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=837>
Status New

	Source	Destination
File	frebsd-src-2/telnet.c	frebsd-src-2/telnet.c
Line	66	1623
Object	crmod	crmod

Code Snippet

File Name frebsd-src-2/telnet.c
Method crmod,

```
....  
66.      crmod,
```

File Name frebsd-src-2/telnet.c
Method telrcv(void)

```
....  
1623.                                     else if ((c == '\n') &&  
my_want_state_is_dont(TELOPT_ECHO) && !crmod) {
```

Use of Uninitialized Variable\Path 4:

Severity Medium

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=838
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	66	1670
Object	crmod	crmod

Code Snippet

File Name freebsd-src-2/telnet.c
Method crmod,

```
....  
66.    crmod,
```

File Name freebsd-src-2/telnet.c
Method telrcv(void)

```
....  
1670.                                if (crmod) {
```

Use of Uninitialized Variable\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=839
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	68	1944
Object	crlf	crlf

Code Snippet

File Name freebsd-src-2/telnet.c
Method crlf, /* Should '\r' be mapped to <CR><LF> (or <CR><NUL>)? */

```
....  
68.    crlf, /* Should '\r' be mapped to <CR><LF> (or <CR><NUL>)?  
*/
```

File Name freebsd-src-2/telnet.c

Method telsnd()

```
....  
1944.                      if (!crlf) {
```

Use of Uninitialized Variable\Path 6:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=840>
Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	69	2084
Object	telnetport	telnetport

Code Snippet

File Name freebsd-src-2/telnet.c
Method telnetport,

```
....  
69.      telnetport,
```

File Name freebsd-src-2/telnet.c
Method my_telnet(char *user)

```
....  
2084.              if (telnetport && wantencryption) {
```

Use of Uninitialized Variable\Path 7:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=841>
Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	69	2055
Object	telnetport	telnetport

Code Snippet

File Name freebsd-src-2/telnet.c

Method	telnetport,
	<pre>.... 69. telnetport,</pre>
File Name	frebsd-src-2/telnet.c
Method	my_telnet(char *user)
	<pre>.... 2055. if (telnetport) {</pre>

Use of Uninitialized Variable\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=842
Status	New

	Source	Destination
File	frebsd-src-2/telnet.c	frebsd-src-2/telnet.c
Line	74	2320
Object	autosynch	autosynch

Code Snippet	
File Name	frebsd-src-2/telnet.c
Method	autosynch, /* send interrupt characters with SYNCH? */
	<pre>.... 74. autosynch, /* send interrupt characters with SYNCH? */</pre>
File Name	frebsd-src-2/telnet.c
Method	sendbrk(void)
	<pre>.... 2320. if (autosynch) {</pre>

Use of Uninitialized Variable\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=843
Status	New

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

File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	74	2306
Object	autosynch	autosynch

Code Snippet

File Name freebsd-src-2/telnet.c

Method autosynch, /* send interrupt characters with SYNCH? */

```
....  
74.    autosynch, /* send interrupt characters with SYNCH? */
```



File Name freebsd-src-2/telnet.c

Method intp(void)

```
....  
2306.    if (autosynch) {
```

Use of Uninitialized Variable\Path 10:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=844>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	74	2334
Object	autosynch	autosynch

Code Snippet

File Name freebsd-src-2/telnet.c

Method autosynch, /* send interrupt characters with SYNCH? */

```
....  
74.    autosynch, /* send interrupt characters with SYNCH? */
```



File Name freebsd-src-2/telnet.c

Method sendabort(void)

```
....  
2334.    if (autosynch) {
```

Use of Uninitialized Variable\Path 11:

Severity Medium

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=845
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	74	2348
Object	autosynch	autosynch

Code Snippet

File Name freebsd-src-2/telnet.c

Method autosynch, /* send interrupt characters with SYNCH? */

```
....  
74.    autosynch, /* send interrupt characters with SYNCH? */
```



File Name freebsd-src-2/telnet.c

Method sendsusp(void)

```
....  
2348.    if (autosynch) {
```

Use of Uninitialized Variable\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=846
Status	New

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	44	309
Object	verbose	verbose

Code Snippet

File Name freebsd-src-2/valectl.c

Method int verbose;

```
....  
44.    int verbose;
```



File Name freebsd-src-2/valectl.c

Method bdg_ctl(struct args *a)

```
....
309.             if (verbose) {
```

Use of Uninitialized Variable\Path 13:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=847>

Status New

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	44	430
Object	verbose	verbose

Code Snippet

File Name freebsd-src-2/valectl.c

Method int verbose;

```
....
44.  int verbose;
```

File Name freebsd-src-2/valectl.c

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

```
....
430.             verbose++;
```

Use of Uninitialized Variable\Path 14:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=848>

Status New

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	44	315
Object	verbose	verbose

Code Snippet

File Name freebsd-src-2/valectl.c

Method int verbose;

```
....  
44. int verbose;
```

File Name freebsd-src-2/valectl.c

Method bdg_ctl(struct args *a)

```
....  
315. if (verbose) {
```

Use of Uninitialized Variable\Path 15:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=849>

Status New

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	44	321
Object	verbose	verbose

Code Snippet

File Name freebsd-src-2/valectl.c

Method int verbose;

```
....  
44. int verbose;
```

File Name freebsd-src-2/valectl.c

Method bdg_ctl(struct args *a)

```
....  
321. if (verbose) {
```

Use of Uninitialized Variable\Path 16:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=850>

Status New

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

File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	197	1396
Object	vga_sub_configure	vga_sub_configure

Code Snippet

File Name freebsd-src-2/vga.c

Method int (*vga_sub_configure)(int flags);

```
....
197.      int      (*vga_sub_configure) (int flags);
```



File Name freebsd-src-2/vga.c

Method vga_init(int unit, video_adapter_t *adp, int flags)

```
....
1396.      if (vga_sub_configure != NULL)
```

Use of Uninitialized Variable\Path 17:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=851>

Status New

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	197	485
Object	vga_sub_configure	vga_sub_configure

Code Snippet

File Name freebsd-src-2/vga.c

Method int (*vga_sub_configure)(int flags);

```
....
197.      int      (*vga_sub_configure) (int flags);
```



File Name freebsd-src-2/vga.c

Method vga_configure(int flags)

```
....
485.      if (vga_sub_configure != NULL)
```

Use of Uninitialized Variable\Path 18:

Severity Medium

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=852
Status	New

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	765	960
Object	rfr_78	rfr_78

Code Snippet

File Name freebsd-src-2/bwirf.c

Method bwi_rf_init_bcm2050(struct bwi_mac *mac)

```
....  
765.         uint16_t phyr_35, phyr_30 = 0, rfr_78, phyr_80f = 0,  
phyr_810 = 0;  
....  
960.         rf->rf_calib = rfr_78;
```

Use of Uninitialized Variable\Path 19:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=853
Status	New

	Source	Destination
File	freebsd-src-2/statem_srvr.c	freebsd-src-2/statem_srvr.c
Line	2771	2829
Object	sigbytes2	sigbytes2

Code Snippet

File Name freebsd-src-2/statem_srvr.c

Method int tls_construct_server_key_exchange(SSL *s, WPACKET *pkt)

```
....  
2771.         unsigned char *sigbytes1, *sigbytes2, *tbs;  
....  
2829.         || sigbytes1 != sigbytes2) {
```

Use of Uninitialized Variable\Path 20:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=854
Status	New

	Source	Destination
File	freebsd-src-2/statem_srvr.c	freebsd-src-2/statem_srvr.c
Line	1298	1302
Object	cookie_leni	cookie_leni

Code Snippet

File Name freebsd-src-2/statem_srvr.c

Method int dtls_construct_hello_verify_request(SSL *s, WPACKET *pkt)

```

....
1298.         unsigned int cookie_leni;
....
1302.         cookie_leni > 255) {

```

Use of Uninitialized Variable\Path 21:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=855>

Status New

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	1259	1263
Object	msglen	msglen

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method int dtls1_close_construct_packet(SSL *s, WPACKET *pkt, int htype)

```

....
1259.         size_t msglen;
....
1263.         || msglen > INT_MAX)

```

Use of Uninitialized Pointer

Query Path:

CPP\Cx\CPP Medium Threat\Use of Uninitialized Pointer Version:0

Categories

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

Description

Use of Uninitialized Pointer\Path 1:

Severity Medium

Result State To Verify

Online Results <http://WIN->

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=816
Status	New

The variable declared in hbh at freebsd-src-2/ip6_output.c in line 1322 is not initialized when it is used by ip6h_len at freebsd-src-2/ip6_output.c in line 1322.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	1345	1390
Object	hbh	ip6h_len

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_insert_jumboopt(struct ip6_exthdrs *exthdrs, u_int32_t plen)

```
....
1345.          struct ip6_hbh *hbh;
....
1390.          hbh->ip6h_len += (JUMBOOPTLEN >> 3);
```

Use of Uninitialized Pointer\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=817
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by flags at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	608
Object	strtmp	flags

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.          ASN1_STRING *strtmp;
....
608.          && (strtmp->flags & ASN1_STRING_FLAG_NDEF)) {
```

Use of Uninitialized Pointer\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=817

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=818
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by type at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	532
Object	strtmp	type

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
532.         utype = strtmp->type;
```

Use of Uninitialized Pointer\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=819
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by data at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	610
Object	strtmp	data

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
610.         strtmp->data = cout;
```

Use of Uninitialized Pointer\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=819

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=820
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by length at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	611
Object	strtmp	length

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
611.             strtmp->length = 0;
```

Use of Uninitialized Pointer\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=821
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by data at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	616
Object	strtmp	data

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
616.             cont = strtmp->data;
```

Use of Uninitialized Pointer\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=821

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=822
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by length at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	617
Object	strtmp	length

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
617.     len = strtmp->length;
```

Use of Uninitialized Pointer\Path 8:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=823
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by flags at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	608
Object	strtmp	flags

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
608.     && (strtmp->flags & ASN1_STRING_FLAG_NDEF)) {
```

Use of Uninitialized Pointer\Path 9:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=823

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=824
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by data at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	610
Object	strtmp	data

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
610.           strtmp->data = cout;
```

Use of Uninitialized Pointer\Path 10:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=825
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by length at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	611
Object	strtmp	length

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
611.           strtmp->length = 0;
```

Use of Uninitialized Pointer\Path 11:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=825

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=826
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by data at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	616
Object	strtmp	data

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
616.     cont = strtmp->data;
```

Use of Uninitialized Pointer\Path 12:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=827
Status	New

The variable declared in strtmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by length at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	511	617
Object	strtmp	length

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
511.     ASN1_STRING *strtmp;
....
617.     len = strtmp->length;
```

Use of Uninitialized Pointer\Path 13:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=827

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=828
Status	New

The variable declared in otmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by length at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	512	548
Object	otmp	length

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
512.     ASN1_OBJECT *otmp;
....
548.     len = otmp->length;
```

Use of Uninitialized Pointer\Path 14:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=829
Status	New

The variable declared in otmp at freebsd-src-2/tasn_enc.c in line 507 is not initialized when it is used by data at freebsd-src-2/tasn_enc.c in line 507.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	512	547
Object	otmp	data

Code Snippet

File Name freebsd-src-2/tasn_enc.c

Method static int asn1_ex_i2c(ASN1_VALUE **pval, unsigned char *cout, int *putype,

```
....
512.     ASN1_OBJECT *otmp;
....
547.     cont = otmp->data;
```

Use of Uninitialized Pointer\Path 15:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=830

[BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=830](http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=830)

Status New

The variable declared in sw at freebsd-src-2/vga.c in line 76 is not initialized when it is used by sw at freebsd-src-2/vga.c in line 76.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	79	85
Object	sw	sw

Code Snippet

File Name freebsd-src-2/vga.c

Method vga_probe_unit(int unit, video_adapter_t *buf, int flags)

```
....  
79.  video_switch_t *sw;  
....  
85.  error = (*sw->probe)(unit, &adp, NULL, flags);
```

Use of Uninitialized Pointer\Path 16:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=831>

Status New

The variable declared in sw at freebsd-src-2/vga.c in line 76 is not initialized when it is used by sw at freebsd-src-2/vga.c in line 76.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	79	83
Object	sw	sw

Code Snippet

File Name freebsd-src-2/vga.c

Method vga_probe_unit(int unit, video_adapter_t *buf, int flags)

```
....  
79.  video_switch_t *sw;  
....  
83.  if (sw == NULL)
```

Use of Uninitialized Pointer\Path 17:

Severity Medium

Result State To Verify

Online Results <http://WIN->

[BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=832](http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=832)

Status New

The variable declared in sw at freebsd-src-2/vga.c in line 93 is not initialized when it is used by sw at freebsd-src-2/vga.c in line 93.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	95	102
Object	sw	sw

Code Snippet

File Name freebsd-src-2/vga.c

Method vga_attach_unit(int unit, vga_softc_t *sc, int flags)

```
....
95.    video_switch_t *sw;
....
102.        error = (*sw->probe)(unit, &sc->adp, NULL, flags);
```

Use of Uninitialized Pointer\Path 18:

Severity Medium

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=833>

Status New

The variable declared in sw at freebsd-src-2/vga.c in line 93 is not initialized when it is used by sw at freebsd-src-2/vga.c in line 93.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	95	99
Object	sw	sw

Code Snippet

File Name freebsd-src-2/vga.c

Method vga_attach_unit(int unit, vga_softc_t *sc, int flags)

```
....
95.    video_switch_t *sw;
....
99.    if (sw == NULL)
```

Use of Uninitialized Pointer\Path 19:

Severity Medium

Result State To Verify

Online Results <http://WIN->

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=834
Status	New

The variable declared in sw at freebsd-src-2/vga.c in line 93 is not initialized when it is used by sw at freebsd-src-2/vga.c in line 93.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	95	105
Object	sw	sw

Code Snippet

File Name freebsd-src-2/vga.c

Method vga_attach_unit(int unit, vga_softc_t *sc, int flags)

```
....
95.    video_switch_t *sw;
....
105.    return (*sw->init)(unit, sc->adp, flags);
```

Heap Inspection

Query Path:

CPP\Cx\CPP Medium Threat\Heap Inspection Version:1

Categories

OWASP Top 10 2013: A6-Sensitive Data Exposure

FISMA 2014: Media Protection

NIST SP 800-53: SC-4 Information in Shared Resources (P1)

OWASP Top 10 2017: A3-Sensitive Data Exposure

Description

Heap Inspection\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=764
Status	New

Method *pwd; at line 443 of freebsd-src-2/scp.c defines pwd, which is designated to contain user passwords. However, while plaintext passwords are later assigned to pwd, this variable is never cleared from memory.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	443	443
Object	pwd	pwd

Code Snippet

File Name freebsd-src-2/scp.c

Method struct passwd *pwd;

```
....  
443. struct passwd *pwd;
```

Heap Inspection\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=765
Status	New

Method main at line 3860 of freebsd-src-2/test_main.c defines pwd, which is designated to contain user passwords. However, while plaintext passwords are later assigned to pwd, this variable is never cleared from memory.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3887	3887
Object	pwd	pwd

Code Snippet

File Name freebsd-src-2/test_main.c
Method main(int argc, char **argv)

```
....  
3887. char *pwd, *testprogdire, *tmp2 = NULL, *vlevel = NULL;
```

Heap Inspection\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=766
Status	New

Method get_reldir at line 3656 of freebsd-src-2/test_main.c defines pwd, which is designated to contain user passwords. However, while plaintext passwords are later assigned to pwd, this variable is never cleared from memory.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3659	3659
Object	pwd	pwd

Code Snippet

File Name freebsd-src-2/test_main.c
Method get_reldir(const char *d)

```
.....
3659.          char *buff, *tried, *pwd = NULL, *p = NULL;
```

Heap Inspection\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=767
Status	New

Method main at line 3860 of freebsd-src-2/test_main.c defines pwd, which is designated to contain user passwords. However, while plaintext passwords are later assigned to pwd, this variable is never cleared from memory.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3943	3942
Object	pwd	realloc

Code Snippet

File Name freebsd-src-2/test_main.c
Method main(int argc, char **argv)

```
.....
3943.          strlen(pwd) + 1 + strlen(testprogdire) + 1)) ==
NULL)
.....
3942.          if ((testprogdire = (char *)realloc(testprogdire,
```

Heap Inspection\Path 5:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=768
Status	New

Method main at line 3860 of freebsd-src-2/test_main.c defines pwd, which is designated to contain user passwords. However, while plaintext passwords are later assigned to pwd, this variable is never cleared from memory.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3898	3942
Object	pwd	realloc

Code Snippet

File Name freebsd-src-2/test_main.c
Method main(int argc, char **argv)

```

.....
3898.         while (pwd[strlen(pwd) - 1] == '\n')
.....
3942.         if ((testprogdire = (char *)realloc(testprogdire,

```

Heap Inspection\Path 6:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=769
Status	New

Method main at line 3860 of freebsd-src-2/test_main.c defines pwd, which is designated to contain user passwords. However, while plaintext passwords are later assigned to pwd, this variable is never cleared from memory.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3894	3942
Object	pwd	realloc

Code Snippet

File Name freebsd-src-2/test_main.c
Method main(int argc, char **argv)

```

.....
3894.         pwd = getcwd(NULL, PATH_MAX);/* Solaris getcwd needs the
size. */
.....
3942.         if ((testprogdire = (char *)realloc(testprogdire,

```

Heap Inspection\Path 7:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=770
Status	New

Method main at line 3860 of freebsd-src-2/test_main.c defines pwd, which is designated to contain user passwords. However, while plaintext passwords are later assigned to pwd, this variable is never cleared from memory.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3899	3942
Object	pwd	realloc

Code Snippet

File Name freebsd-src-2/test_main.c

Method main(int argc, char **argv)

```
....
3899.                pwd[strlen(pwd) - 1] = '\\0';
....
3942.                if ((testprogdire = (char *)realloc(testprogdire,
```

Divide By Zero

Query Path:

CPP\\Cx\\CPP Medium Threat\\Divide By Zero Version:1

[Description](#)

Divide By Zero\\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=206
Status	New

The application performs an illegal operation in ar9300_aic_cal_post_process, in freebsd-src-2/ar9300_aic.c. In line 282, the program attempts to divide by BinaryExpr, which might be evaluate to 0 (zero) at time of division. This value could be a hard-coded zero value, or received from external, untrusted input BinaryExpr in ar9300_aic_cal_post_process of freebsd-src-2/ar9300_aic.c, at line 282.

	Source	Destination
File	freebsd-src-2/ar9300_aic.c	freebsd-src-2/ar9300_aic.c
Line	363	363
Object	BinaryExpr	BinaryExpr

Code Snippet

File Name freebsd-src-2/ar9300_aic.c
Method ar9300_aic_cal_post_process (struct ath_hal *ah)

```
....
363.                (end_idx - i) +
```

Divide By Zero\\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=207
Status	New

The application performs an illegal operation in ar9300_aic_cal_post_process, in freebsd-src-2/ar9300_aic.c. In line 282, the program attempts to divide by BinaryExpr, which might be evaluate to 0 (zero) at time of division. This value could be a hard-coded zero value, or received from external, untrusted input BinaryExpr in ar9300_aic_cal_post_process of freebsd-src-2/ar9300_aic.c, at line 282.

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

File	freebsd-src-2/ar9300_aic.c	freebsd-src-2/ar9300_aic.c
Line	369	369
Object	BinaryExpr	BinaryExpr

Code Snippet

File Name freebsd-src-2/ar9300_aic.c
Method ar9300_aic_cal_post_process (struct ath_hal *ah)

```
....
369.                                (end_idx - i) +
```

Divide By Zero\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=208
Status	New

The application performs an illegal operation in bwi_rf_calc_nrssi_slope_11g, in freebsd-src-2/bwif.c. In line 1905, the program attempts to divide by BinaryExpr, which might be evaluate to 0 (zero) at time of division. This value could be a hard-coded zero value, or received from external, untrusted input BinaryExpr in bwi_rf_calc_nrssi_slope_11g of freebsd-src-2/bwif.c, at line 1905.

	Source	Destination
File	freebsd-src-2/bwif.c	freebsd-src-2/bwif.c
Line	2033	2033
Object	BinaryExpr	BinaryExpr

Code Snippet

File Name freebsd-src-2/bwif.c
Method bwi_rf_calc_nrssi_slope_11g(struct bwi_mac *mac)

```
....
2033.                                rf->rf_nrssi_slope = 0x400000 / (nrssi[0] - nrssi[1]);
```

Divide By Zero\Path 4:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=209
Status	New

The application performs an illegal operation in server_update, in freebsd-src-2/server.c. In line 72, the program attempts to divide by server_limit, which might be evaluate to 0 (zero) at time of division. This value could be a hard-coded zero value, or received from external, untrusted input server_limit in server_update of freebsd-src-2/server.c, at line 72.

	Source	Destination
File	freebsd-src-2/server.c	freebsd-src-2/server.c
Line	80	80
Object	server_limit	server_limit

Code Snippet

File Name freebsd-src-2/server.c
Method server_update(int count)

```
....
80.    server_avail = UINT8_MAX - (count - 1) * UINT8_MAX / server_limit;
```

Char Overflow

Query Path:

CPP\Cx\CPP Integer Overflow\Char Overflow 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)

Description

Char Overflow\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=197
Status	New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 2729 of freebsd-src-2/if_cpsw.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/if_cpsw.c	freebsd-src-2/if_cpsw.c
Line	2760	2760
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/if_cpsw.c
Method cpsw_add_sysctls(struct cpsw_softc *sc)

```
....
2760.    port[0] = '0' + i;
```

Char Overflow\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=198

Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 351 of freebsd-src-2/telnet.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	397	397
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/telnet.c
Method dooption(int option)

```
....
397.          telopt_environ = option;
```

Char Overflow\Path 3:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=199>
Status New

A variable of a larger data type, AssignExpr, is being assigned to a smaller data type, in 1043 of freebsd-src-2/telnet.c. This will cause a loss of data, often the significant bits of a numerical value or the sign bit.

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1052	1052
Object	AssignExpr	AssignExpr

Code Snippet

File Name freebsd-src-2/telnet.c
Method lm_mode(unsigned char *cmd, int len, int init)

```
....
1052.          str_lm_mode[4] = linemode;
```

Path Traversal

Query Path:
CPP\Cx\CPP Medium Threat\Path Traversal Version:0

Categories

OWASP Top 10 2013: A4-Insecure Direct Object References
OWASP Top 10 2017: A5-Broken Access Control

Description

Path Traversal\Path 1:

Severity Medium

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=761
Status	New

Method main at line 78 of freebsd-src-2/cut.c gets user input from the argv element. This element's value then flows through the code and is eventually used in a file path for local disk access in main at line 78 of freebsd-src-2/cut.c. This may cause a Path Traversal vulnerability.

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c
Line	78	149
Object	argv	Pointer

Code Snippet

File Name freebsd-src-2/cut.c
Method main(int argc, char *argv[])

```
....  
78. main(int argc, char *argv[])  
....  
149. if (!(fp = fopen(*argv, "r"))) {
```

Path Traversal\Path 2:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=762
Status	New

Method main at line 78 of freebsd-src-2/cut.c gets user input from the argv element. This element's value then flows through the code and is eventually used in a file path for local disk access in main at line 78 of freebsd-src-2/cut.c. This may cause a Path Traversal vulnerability.

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c
Line	78	149
Object	argv	argv

Code Snippet

File Name freebsd-src-2/cut.c
Method main(int argc, char *argv[])

```
....  
78. main(int argc, char *argv[])  
....  
149. if (!(fp = fopen(*argv, "r"))) {
```

Path Traversal\Path 3:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=763
Status	New

Method main at line 115 of freebsd-src-2/maketab.c gets user input from the argv element. This element's value then flows through the code and is eventually used in a file path for local disk access in main at line 132 of freebsd-src-2/maketab.c. This may cause a Path Traversal vulnerability.

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	115	132
Object	argv	argv

Code Snippet

File Name freebsd-src-2/maketab.c
Method int main(int argc, char *argv[])

```
....
115. int main(int argc, char *argv[])
....
132.     if ((fp = fopen(argv[1], "r")) == NULL) {
```

Buffer Overflow AddressOfLocalVarReturned

Query Path:

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

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.2 - Buffer overflows
NIST SP 800-53: SC-5 Denial of Service Protection (P1)
OWASP Top 10 2017: A1-Injection

Description

Buffer Overflow AddressOfLocalVarReturned\Path 1:

Severity	Medium
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=37
Status	New

The pointer d2 at freebsd-src-2/tasn_enc.c in line 373 is being used after it has been freed.

	Source	Destination
File	freebsd-src-2/tasn_enc.c	freebsd-src-2/tasn_enc.c
Line	381	381
Object	d2	d2

Code Snippet

File Name freebsd-src-2/tasn_enc.c
Method static int der_cmp(const void *a, const void *b)

```
....
381.         return d1->length - d2->length;
```

Buffer Overflow AddressOfLocalVarReturned\Path 2:

Severity Medium
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=38>
Status New

The pointer masks at freebsd-src-2/val_nsec.c in line 61 is being used after it has been freed.

	Source	Destination
File	freebsd-src-2/val_nsec.c	freebsd-src-2/val_nsec.c
Line	85	85
Object	masks	masks

Code Snippet

File Name freebsd-src-2/val_nsec.c
Method nsecbitmap_has_type_rdata(uint8_t* bitmap, size_t len, uint16_t type)

```
....
85.         return (int) (bitmap[mybyte] & masks[type_low&0x7]);
```

NULL Pointer Dereference

Query Path:

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

Categories

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

OWASP Top 10 2017: A1-Injection

Description

NULL Pointer Dereference\Path 1:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1319>
Status New

The variable declared in null at freebsd-src-2/buffer.c in line 1179 is not initialized when it is used by internal_ at freebsd-src-2/buffer.c in line 1185.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c

Line	1181	1203
Object	null	internal_

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_copyout(struct evbuffer *buf, void *data_out, size_t datlen)

```
....
1181.         return evbuffer_copyout_from(buf, NULL, data_out, datlen);
```



File Name frebsd-src-2/buffer.c

Method evbuffer_copyout_from(struct evbuffer *buf, const struct evbuffer_ptr *pos,

```
....
1203.         pos_in_chain = pos->internal_.pos_in_chain;
```

NULL Pointer Dereference\Path 2:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1320>

Status New

The variable declared in null at frebsd-src-2/buffer.c in line 1165 is not initialized when it is used by internal_ at frebsd-src-2/buffer.c in line 1185.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	1169	1203
Object	null	internal_

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_remove(struct evbuffer *buf, void *data_out, size_t datlen)

```
....
1169.         n = evbuffer_copyout_from(buf, NULL, data_out, datlen);
```



File Name frebsd-src-2/buffer.c

Method evbuffer_copyout_from(struct evbuffer *buf, const struct evbuffer_ptr *pos,

```
....
1203.         pos_in_chain = pos->internal_.pos_in_chain;
```

NULL Pointer Dereference\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1321
Status	New

The variable declared in null at freebsd-src-2/buffer.c in line 1165 is not initialized when it is used by internal_ at freebsd-src-2/buffer.c in line 1185.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1169	1202
Object	null	internal_

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_remove(struct evbuffer *buf, void *data_out, size_t datlen)

```
....  
1169.         n = evbuffer_copyout_from(buf, NULL, data_out, datlen);
```



File Name freebsd-src-2/buffer.c
Method evbuffer_copyout_from(struct evbuffer *buf, const struct evbuffer_ptr *pos,

```
....  
1202.         chain = pos->internal_.chain;
```

NULL Pointer Dereference\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1322
Status	New

The variable declared in null at freebsd-src-2/buffer.c in line 1179 is not initialized when it is used by internal_ at freebsd-src-2/buffer.c in line 1185.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	1181	1202
Object	null	internal_

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_copyout(struct evbuffer *buf, void *data_out, size_t datlen)

```
....
1181.         return evbuffer_copyout_from(buf, NULL, data_out, datlen);
```

File Name frebsd-src-2/buffer.c

Method evbuffer_copyout_from(struct evbuffer *buf, const struct evbuffer_ptr *pos,

```
....
1202.         chain = pos->internal_.chain;
```

NULL Pointer Dereference\Path 5:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1323>

Status New

The variable declared in null at frebsd-src-2/buffer.c in line 2702 is not initialized when it is used by internal_ at frebsd-src-2/buffer.c in line 2708.

	Source	Destination
File	frebsd-src-2/buffer.c	frebsd-src-2/buffer.c
Line	2704	2727
Object	null	internal_

Code Snippet

File Name frebsd-src-2/buffer.c

Method evbuffer_search(struct evbuffer *buffer, const char *what, size_t len, const struct evbuffer_ptr *start)

```
....
2704.         return evbuffer_search_range(buffer, what, len, start,
NULL);
```

File Name frebsd-src-2/buffer.c

Method evbuffer_search_range(struct evbuffer *buffer, const char *what, size_t len, const struct evbuffer_ptr *start, const struct evbuffer_ptr *end)

```
....
2727.         last_chain = end->internal_.chain;
```

NULL Pointer Dereference\Path 6:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1323>

[88&pathid=1324](#)

Status New

The variable declared in null at freebsd-src-2/cachedump.c in line 821 is not initialized when it is used by rep at freebsd-src-2/cachedump.c in line 793.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	847	799
Object	null	rep

Code Snippet

File Name freebsd-src-2/cachedump.c

Method int print_deleg_lookup(RES* ssl, struct worker* worker, uint8_t* nm,

```
....  
847.                print_dp_main(ssl, dp, NULL);
```

File Name freebsd-src-2/cachedump.c

Method print_dp_main(RES* ssl, struct delegpt* dp, struct dns_msg* msg)

```
....  
799.                for(i=0; i<msg->rep->rrset_count; i++) {
```

NULL Pointer Dereference\Path 7:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1325>

Status New

The variable declared in null at freebsd-src-2/cachedump.c in line 821 is not initialized when it is used by rep at freebsd-src-2/cachedump.c in line 793.

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	896	799
Object	null	rep

Code Snippet

File Name freebsd-src-2/cachedump.c

Method int print_deleg_lookup(RES* ssl, struct worker* worker, uint8_t* nm,

```
....  
896.                print_dp_main(ssl, stub->dp, NULL);
```

File Name freebsd-src-2/cachedump.c
Method print_dp_main(RES* ssl, struct delegpt* dp, struct dns_msg* msg)

```
....
799.         for(i=0; i<msg->rep->rrset_count; i++) {
```

NULL Pointer Dereference\Path 8:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1326>
Status New

The variable declared in null at freebsd-src-2/ext2_extents.c in line 926 is not initialized when it is used by b_data at freebsd-src-2/ext2_extents.c in line 926.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1005	1050
Object	null	b_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_split(struct inode *ip, struct ext4_extent_path *path,

```
....
1005.         bp = NULL;
....
1050.         ext2_extent_blk_csum_set(ip, bp->b_data);
```

NULL Pointer Dereference\Path 9:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1327>
Status New

The variable declared in null at freebsd-src-2/ext2_extents.c in line 926 is not initialized when it is used by b_data at freebsd-src-2/ext2_extents.c in line 926.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1052	1050
Object	null	b_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_split(struct inode *ip, struct ext4_extent_path *path,

```
....
1052.          bp = NULL;
....
1050.          ext2_extent_blk_csum_set(ip, bp->b_data);
```

NULL Pointer Dereference\Path 10:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1328>

Status New

The variable declared in null at freebsd-src-2/ext2_extents.c in line 926 is not initialized when it is used by b_data at freebsd-src-2/ext2_extents.c in line 926.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1005	1003
Object	null	b_data

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_ext_split(struct inode *ip, struct ext4_extent_path *path,

```
....
1005.          bp = NULL;
....
1003.          ext2_extent_blk_csum_set(ip, bp->b_data);
```

NULL Pointer Dereference\Path 11:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1329>

Status New

The variable declared in null at freebsd-src-2/if_cpsw.c in line 1610 is not initialized when it is used by bd_offset at freebsd-src-2/if_cpsw.c in line 1610.

	Source	Destination
File	freebsd-src-2/if_cpsw.c	freebsd-src-2/if_cpsw.c
Line	1621	1724
Object	null	bd_offset

Code Snippet

File Name frebsd-src-2/if_cpsw.c
Method cpsw_rx_dequeue(struct cpsw_softc *sc)

```
....  
1621.          last = NULL;  
....  
1724.          cpsw_write_cp_slot(sc, &sc->rx, last);
```

NULL Pointer Dereference\Path 12:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1330>
Status New

The variable declared in null at frebsd-src-2/if_cpsw.c in line 1737 is not initialized when it is used by bd_offset at frebsd-src-2/if_cpsw.c in line 1737.

	Source	Destination
File	frebsd-src-2/if_cpsw.c	frebsd-src-2/if_cpsw.c
Line	1745	1804
Object	null	bd_offset

Code Snippet

File Name frebsd-src-2/if_cpsw.c
Method cpsw_rx_enqueue(struct cpsw_softc *sc)

```
....  
1745.          first_new_slot = NULL;  
....  
1804.          cpsw_write_hdp_slot(sc, &sc->rx, first_new_slot);
```

NULL Pointer Dereference\Path 13:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1331>
Status New

The variable declared in null at frebsd-src-2/if_cpsw.c in line 1737 is not initialized when it is used by bd_offset at frebsd-src-2/if_cpsw.c in line 1737.

	Source	Destination
File	frebsd-src-2/if_cpsw.c	frebsd-src-2/if_cpsw.c
Line	1745	1807
Object	null	bd_offset

Code Snippet

File Name freebsd-src-2/if_cpsw.c
Method cpsw_rx_enqueue(struct cpsw_softc *sc)

```
....  
1745.          first_new_slot = NULL;  
....  
1807.          cpsw_cpdma_write_bd_next(sc, last_old_slot,  
first_new_slot);
```

NULL Pointer Dereference\Path 14:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1332>
Status New

The variable declared in null at freebsd-src-2/if_cpsw.c in line 1848 is not initialized when it is used by bd_offset at freebsd-src-2/if_cpsw.c in line 1848.

	Source	Destination
File	freebsd-src-2/if_cpsw.c	freebsd-src-2/if_cpsw.c
Line	1858	1978
Object	null	bd_offset

Code Snippet

File Name freebsd-src-2/if_cpsw.c
Method cpswp_tx_enqueue(struct cpswp_softc *sc)

```
....  
1858.          first_new_slot = NULL;  
....  
1978.          cpsw_cpdma_write_bd_next(sc->swsc, last_old_slot,
```

NULL Pointer Dereference\Path 15:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1333>
Status New

The variable declared in null at freebsd-src-2/if_cpsw.c in line 1848 is not initialized when it is used by bd_offset at freebsd-src-2/if_cpsw.c in line 1848.

	Source	Destination
File	freebsd-src-2/if_cpsw.c	freebsd-src-2/if_cpsw.c
Line	1858	1982
Object	null	bd_offset

Code Snippet

File Name frebsd-src-2/if_cpsw.c

Method cpsw_tx_enqueue(struct cpsw_softc *sc)

```
....  
1858.          first_new_slot = NULL;  
....  
1982.          cpsw_write_hdp_slot(sc->swsc, &sc->swsc->tx,  
first_new_slot);
```

NULL Pointer Dereference\Path 16:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1334>

Status New

The variable declared in null at frebsd-src-2/ip6_output.c in line 409 is not initialized when it is used by ia_ifa at frebsd-src-2/ip6_output.c in line 409.

	Source	Destination
File	frebsd-src-2/ip6_output.c	frebsd-src-2/ip6_output.c
Line	425	1267
Object	null	ia_ifa

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_output(struct mbuf *m0, struct ip6_pktopts *opt,

```
....  
425.          struct in6_ifaddr *ia = NULL;  
....  
1267.          counter_u64_add(ia->ia_ifa.ifa_obytes,
```

NULL Pointer Dereference\Path 17:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1335>

Status New

The variable declared in null at frebsd-src-2/ip6_output.c in line 409 is not initialized when it is used by ia_ifa at frebsd-src-2/ip6_output.c in line 409.

	Source	Destination
File	frebsd-src-2/ip6_output.c	frebsd-src-2/ip6_output.c
Line	425	1266

Object	null	ia_ifa
--------	------	--------

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_output(struct mbuf *m0, struct ip6_pktopts *opt,

```
....
425.             struct in6_ifaddr *ia = NULL;
....
1266.             counter_u64_add(ia->ia_ifa.ifa_opackets,
1);
```

NULL Pointer Dereference\Path 18:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1336>

Status New

The variable declared in null at frebsd-src-2/ip6_output.c in line 409 is not initialized when it is used by nh_pksent at frebsd-src-2/ip6_output.c in line 409.

	Source	Destination
File	frebsd-src-2/ip6_output.c	frebsd-src-2/ip6_output.c
Line	673	729
Object	null	nh_pksent

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_output(struct mbuf *m0, struct ip6_pktopts *opt,

```
....
673.             nh = NULL;
....
729.             counter_u64_add(nh->nh_pksent, 1);
```

NULL Pointer Dereference\Path 19:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1337>

Status New

The variable declared in null at frebsd-src-2/krb5_mech.c in line 1399 is not initialized when it is used by m_len at frebsd-src-2/krb5_mech.c in line 1399.

	Source	Destination
File	frebsd-src-2/krb5_mech.c	frebsd-src-2/krb5_mech.c

Line	1448	1532
Object	null	m_len

Code Snippet

File Name frebsd-src-2/krb5_mech.c

Method krb5_wrap_new(struct krb5_context *kc, int conf_req_flag,

```

....
1448.                tm = NULL;
....
1532.                tm->m_len -= 16;

```

NULL Pointer Dereference\Path 20:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1338>

Status New

The variable declared in null at frebsd-src-2/krb5_mech.c in line 1399 is not initialized when it is used by m_data at frebsd-src-2/krb5_mech.c in line 1399.

	Source	Destination
File	frebsd-src-2/krb5_mech.c	frebsd-src-2/krb5_mech.c
Line	1448	1529
Object	null	m_data

Code Snippet

File Name frebsd-src-2/krb5_mech.c

Method krb5_wrap_new(struct krb5_context *kc, int conf_req_flag,

```

....
1448.                tm = NULL;
....
1529.                bcopy(p, tm->m_data, 16);

```

NULL Pointer Dereference\Path 21:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1339>

Status New

The variable declared in null at frebsd-src-2/krb5_mech.c in line 1399 is not initialized when it is used by m_data at frebsd-src-2/krb5_mech.c in line 1399.

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

File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1448	1531
Object	null	m_data

Code Snippet

File Name freebsd-src-2/krb5_mech.c

Method krb5_wrap_new(struct krb5_context *kc, int conf_req_flag,

```

.....
1448.                tm = NULL;
.....
1531.                tm->m_data += 16;

```

NULL Pointer Dereference\Path 22:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1340>

Status New

The variable declared in null at freebsd-src-2/print-openflow.c in line 144 is not initialized when it is used by mti at freebsd-src-2/print-openflow.c in line 107.

	Source	Destination
File	freebsd-src-2/print-openflow.c	freebsd-src-2/print-openflow.c
Line	167	132
Object	null	mti

Code Snippet

File Name freebsd-src-2/print-openflow.c

Method openflow_print(netdissect_options *ndo, const u_char *cp, u_int len)

```

.....
167.                NULL;

```



File Name freebsd-src-2/print-openflow.c

Method of_message_print(netdissect_options *ndo,

```

.....
132.                mti->decoder(ndo, cp, len);

```

NULL Pointer Dereference\Path 23:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1340>

Status	88&pathid=1341 New
--------	---

The variable declared in null at freebsd-src-2/print-openflow.c in line 144 is not initialized when it is used by decoder at freebsd-src-2/print-openflow.c in line 107.

	Source	Destination
File	freebsd-src-2/print-openflow.c	freebsd-src-2/print-openflow.c
Line	167	129
Object	null	decoder

Code Snippet

File Name freebsd-src-2/print-openflow.c
Method openflow_print(netdissect_options *ndo, const u_char *cp, u_int len)

```
....
167.                NULL;
```

File Name freebsd-src-2/print-openflow.c
Method of_message_print(netdissect_options *ndo,

```
....
129.                if (!ndo->ndo_vflag || !mti->decoder)
```

NULL Pointer Dereference\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1342
Status	New

The variable declared in null at freebsd-src-2/rtsol.c in line 159 is not initialized when it is used by ipi6_ifindex at freebsd-src-2/rtsol.c in line 159.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	169	245
Object	null	ipi6_ifindex

Code Snippet

File Name freebsd-src-2/rtsol.c
Method rtsol_input(int sock)


```
.....
169.         struct in6_pktinfo *pi = NULL;
.....
245.         if_indextoname(pi->ipi6_ifindex, ifnamebuf));
```

NULL Pointer Dereference\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1343
Status	New

The variable declared in null at freebsd-src-2/rtsol.c in line 159 is not initialized when it is used by ipi6_ifindex at freebsd-src-2/rtsol.c in line 159.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	169	254
Object	null	ipi6_ifindex

Code Snippet

File Name freebsd-src-2/rtsol.c
Method rtsol_input(int sock)

```
.....
169.         struct in6_pktinfo *pi = NULL;
.....
254.         if_indextoname(pi->ipi6_ifindex, ifnamebuf));
```

NULL Pointer Dereference\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1344
Status	New

The variable declared in null at freebsd-src-2/rtsol.c in line 159 is not initialized when it is used by ipi6_ifindex at freebsd-src-2/rtsol.c in line 159.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	169	264
Object	null	ipi6_ifindex

Code Snippet

File Name freebsd-src-2/rtsol.c
Method rtsol_input(int sock)

```

.....
169.         struct in6_pktinfo *pi = NULL;
.....
264.         if_indextoname(pi->ipi6_ifindex, ifnamebuf));

```

NULL Pointer Dereference\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1345
Status	New

The variable declared in null at freebsd-src-2/server.c in line 154 is not initialized when it is used by l2cap_bdaddr at freebsd-src-2/server.c in line 154.

	Source	Destination
File	freebsd-src-2/server.c	freebsd-src-2/server.c
Line	240	252
Object	null	l2cap_bdaddr

Code Snippet

File Name freebsd-src-2/server.c
Method server_read(int s, short ev, void *arg)

```

.....
240.         log_info("Accepted connection from %s",
bt_ntoa(&ra.l2cap_bdaddr, NULL));
.....
252.         b2eaddr(chan->raddr, &ra.l2cap_bdaddr);

```

NULL Pointer Dereference\Path 28:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1346
Status	New

The variable declared in null at freebsd-src-2/statem_dtls.c in line 467 is not initialized when it is used by msg_header at freebsd-src-2/statem_dtls.c in line 467.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	492	511
Object	null	msg_header

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method static int dtls1_retrieve_buffered_fragment(SSL *s, size_t *len)

```
....  
492.                frag = NULL;  
....  
511.                frag->msg_header.frag_len);
```

NULL Pointer Dereference\Path 29:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1347
Status	New

The variable declared in null at freebsd-src-2/statem_dtls.c in line 467 is not initialized when it is used by msg_header at freebsd-src-2/statem_dtls.c in line 467.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	492	510
Object	null	msg_header

Code Snippet

File Name freebsd-src-2/statem_dtls.c
Method static int dtls1_retrieve_buffered_fragment(SSL *s, size_t *len)

```
....  
492.                frag = NULL;  
....  
510.                memcpy(&p[frag->msg_header.frag_off], frag->fragment,
```

NULL Pointer Dereference\Path 30:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1348
Status	New

The variable declared in null at freebsd-src-2/statem_dtls.c in line 467 is not initialized when it is used by msg_header at freebsd-src-2/statem_dtls.c in line 467.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	492	507
Object	null	msg_header

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method static int dtls1_retrieve_buffered_fragment(SSL *s, size_t *len)

```
....  
492.             frag = NULL;  
....  
507.             if (ret && frag->msg_header.frag_len > 0) {
```

NULL Pointer Dereference\Path 31:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1349>

Status New

The variable declared in null at freebsd-src-2/statem_dtls.c in line 467 is not initialized when it is used by msg_header at freebsd-src-2/statem_dtls.c in line 467.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	492	501
Object	null	msg_header

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method static int dtls1_retrieve_buffered_fragment(SSL *s, size_t *len)

```
....  
492.             frag = NULL;  
....  
501.             size_t frag_len = frag->msg_header.frag_len;
```

NULL Pointer Dereference\Path 32:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1350>

Status New

The variable declared in null at freebsd-src-2/statem_dtls.c in line 467 is not initialized when it is used by msg_header at freebsd-src-2/statem_dtls.c in line 467.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	492	500
Object	null	msg_header

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method static int dtls1_retrieve_buffered_fragment(SSL *s, size_t *len)

```
....  
492.             frag = NULL;  
....  
500.             if (s->d1->handshake_read_seq == frag->msg_header.seq) {
```

NULL Pointer Dereference\Path 33:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1351>

Status New

The variable declared in null at freebsd-src-2/statem_dtls.c in line 531 is not initialized when it is used by reassembly at freebsd-src-2/statem_dtls.c in line 531.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	565	609
Object	null	reassembly

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)

```
....  
565.             frag = NULL;  
....  
609.             OPENSSL_free(frag->reassembly);
```

NULL Pointer Dereference\Path 34:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1352>

Status New

The variable declared in null at freebsd-src-2/statem_dtls.c in line 531 is not initialized when it is used by reassembly at freebsd-src-2/statem_dtls.c in line 531.

	Source	Destination
File	freebsd-src-2/statem_dtls.c	freebsd-src-2/statem_dtls.c
Line	565	575
Object	null	reassembly

Code Snippet

File Name freebsd-src-2/statem_dtls.c

Method dtls1_reassemble_fragment(SSL *s, const struct hm_header_st *msg_hdr)

```
....
565.             frag = NULL;
....
575.         if (frag->reassembly == NULL) {
```

NULL Pointer Dereference\Path 35:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1353
Status	New

The variable declared in null at freebsd-src-2/vnic_dev.c in line 929 is not initialized when it is used by res at freebsd-src-2/vnic_dev.c in line 36.

	Source	Destination
File	freebsd-src-2/vnic_dev.c	freebsd-src-2/vnic_dev.c
Line	932	107
Object	null	res

Code Snippet

File Name freebsd-src-2/vnic_dev.c

Method struct vnic_dev *vnic_dev_register(struct vnic_dev *vdev,

```
....
932.         if (vnic_dev_discover_res(vdev, NULL, num_bars))
```



File Name freebsd-src-2/vnic_dev.c

Method static int vnic_dev_discover_res(struct vnic_dev *vdev,

```
....
107.             bcopy(&softc->mem, &vdev->res[type].bar, sizeof(softc-
>mem));
```

NULL Pointer Dereference\Path 36:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1354
Status	New

The variable declared in 0 at freebsd-src-2/buffer.c in line 670 is not initialized when it is used by iov_len at freebsd-src-2/buffer.c in line 670.

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

File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	686	686
Object	0	iov_len

Code Snippet

File Name freebsd-src-2/buffer.c

Method evbuffer_reserve_space(struct evbuffer *buf, ev_ssize_t size,

```
....
686.                vec[0].iov_len = (size_t)CHAIN_SPACE_LEN(chain);
```

NULL Pointer Dereference\Path 37:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1355>

Status New

The variable declared in 0 at freebsd-src-2/print-udp.c in line 215 is not initialized when it is used by rr_dv at freebsd-src-2/print-udp.c in line 215.

	Source	Destination
File	freebsd-src-2/print-udp.c	freebsd-src-2/print-udp.c
Line	218	289
Object	0	rr_dv

Code Snippet

File Name freebsd-src-2/print-udp.c

Method rtcp_print(netdissect_options *ndo, const u_char *hdr, const u_char *ep)

```
....
218.                const struct rtcp_rr *rr = 0;
....
289.                GET_BE_U_4(rr->rr_dv), ts, dts);
```

NULL Pointer Dereference\Path 38:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1356>

Status New

The variable declared in 0 at freebsd-src-2/print-udp.c in line 215 is not initialized when it is used by rr_ls at freebsd-src-2/print-udp.c in line 215.

	Source	Destination
File	freebsd-src-2/print-udp.c	freebsd-src-2/print-udp.c

Line	218	288
Object	0	rr_ls

Code Snippet

File Name frebsd-src-2/print-udp.c

Method rtcp_print(netdissect_options *ndo, const u_char *hdr, const u_char *ep)

```
....
218.           const struct rtcp_rr *rr = 0;
....
288.           GET_BE_U_4(rr->rr_ls),
```

NULL Pointer Dereference\Path 39:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1357>

Status New

The variable declared in 0 at frebsd-src-2/print-udp.c in line 215 is not initialized when it is used by rr_nl at frebsd-src-2/print-udp.c in line 215.

	Source	Destination
File	frebsd-src-2/print-udp.c	frebsd-src-2/print-udp.c
Line	218	287
Object	0	rr_nl

Code Snippet

File Name frebsd-src-2/print-udp.c

Method rtcp_print(netdissect_options *ndo, const u_char *hdr, const u_char *ep)

```
....
218.           const struct rtcp_rr *rr = 0;
....
287.           GET_BE_U_4(rr->rr_nl) & 0x00ffffff,
```

NULL Pointer Dereference\Path 40:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1358>

Status New

The variable declared in 0 at frebsd-src-2/print-udp.c in line 215 is not initialized when it is used by rr_srcid at frebsd-src-2/print-udp.c in line 215.

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

File	freebsd-src-2/print-udp.c	freebsd-src-2/print-udp.c
Line	218	283
Object	0	rr_srcid

Code Snippet

File Name freebsd-src-2/print-udp.c

Method rtcp_print(netdissect_options *ndo, const u_char *hdr, const u_char *ep)

```
....  
218.         const struct rtcp_rr *rr = 0;  
....  
283.         ND_PRINT(" %u", GET_BE_U_4(rr->rr_srcid));
```

NULL Pointer Dereference\Path 41:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1359>

Status New

The variable declared in 0 at freebsd-src-2/rt2860.c in line 1455 is not initialized when it is used by xflags at freebsd-src-2/rt2860.c in line 1455.

	Source	Destination
File	freebsd-src-2/rt2860.c	freebsd-src-2/rt2860.c
Line	1521	1521
Object	0	xflags

Code Snippet

File Name freebsd-src-2/rt2860.c

Method rt2860_tx(struct rt2860_softc *sc, struct mbuf *m, struct ieee80211_node *ni)

```
....  
1521.         txwi->xflags = qos ? 0 : RT2860_TX_NSEQ;
```

NULL Pointer Dereference\Path 42:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1360>

Status New

The variable declared in 0 at freebsd-src-2/rt2860.c in line 1455 is not initialized when it is used by xflags at freebsd-src-2/rt2860.c in line 1455.

	Source	Destination
File	freebsd-src-2/rt2860.c	freebsd-src-2/rt2860.c

Line	1521	1558
Object	0	xflags

Code Snippet

File Name frebsd-src-2/rt2860.c

Method rt2860_tx(struct rt2860_softc *sc, struct mbuf *m, struct ieee80211_node *ni)

```
....
1521.          txwi->xflags = qos ? 0 : RT2860_TX_NSEQ;
....
1558.          txwi->xflags |= RT2860_TX_ACK;
```

NULL Pointer Dereference\Path 43:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1361>

Status New

The variable declared in 0 at frebsd-src-2/rt2860.c in line 1728 is not initialized when it is used by xflags at frebsd-src-2/rt2860.c in line 1728.

	Source	Destination
File	frebsd-src-2/rt2860.c	frebsd-src-2/rt2860.c
Line	1772	1772
Object	0	xflags

Code Snippet

File Name frebsd-src-2/rt2860.c

Method rt2860_tx_raw(struct rt2860_softc *sc, struct mbuf *m,

```
....
1772.          txwi->xflags = params->ibp_pri & 3 ? 0 : RT2860_TX_NSEQ;
```

NULL Pointer Dereference\Path 44:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1362>

Status New

The variable declared in 0 at frebsd-src-2/rt2860.c in line 1728 is not initialized when it is used by xflags at frebsd-src-2/rt2860.c in line 1728.

	Source	Destination
File	frebsd-src-2/rt2860.c	frebsd-src-2/rt2860.c
Line	1772	1801

Object	0	xflags
--------	---	--------

Code Snippet

File Name frebsd-src-2/rt2860.c
Method rt2860_tx_raw(struct rt2860_softc *sc, struct mbuf *m,

```
....
1772.          txwi->xflags = params->ibp_pri & 3 ? 0 : RT2860_TX_NSEQ;
....
1801.          txwi->xflags |= RT2860_TX_ACK;
```

NULL Pointer Dereference\Path 45:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1363
Status	New

The variable declared in 0 at frebsd-src-2/rt2860.c in line 3353 is not initialized when it is used by freq at frebsd-src-2/rt2860.c in line 3353.

	Source	Destination
File	frebsd-src-2/rt2860.c	frebsd-src-2/rt2860.c
Line	3412	3412
Object	0	freq

Code Snippet

File Name frebsd-src-2/rt2860.c
Method rt2860_read_eeprom(struct rt2860_softc *sc, uint8_t
 macaddr[IEEE80211_ADDR_LEN])

```
....
3412.          sc->freq = ((val & 0xff) != 0xff) ? val & 0xff : 0;
```

NULL Pointer Dereference\Path 46:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1364
Status	New

The variable declared in 0 at frebsd-src-2/server.c in line 265 is not initialized when it is used by security_description at frebsd-src-2/server.c in line 265.

	Source	Destination
File	frebsd-src-2/server.c	frebsd-src-2/server.c
Line	281	281

Object	0	security_description
--------	---	----------------------

Code Snippet

File Name frebsd-src-2/server.c
Method server_register(void)

```
....
281.          p.security_description = (l2cap_mode == 0 ? 0x0000 :
0x0001);
```

NULL Pointer Dereference\Path 47:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1365
Status	New

The variable declared in 0 at frebsd-src-2/valectl.c in line 85 is not initialized when it is used by Pointer at frebsd-src-2/valectl.c in line 85.

	Source	Destination
File	frebsd-src-2/valectl.c	frebsd-src-2/valectl.c
Line	94	120
Object	0	Pointer

Code Snippet

File Name frebsd-src-2/valectl.c
Method parse_ring_config(const char* conf,

```
....
94.          *nr_tx_rings = *nr_rx_rings = 0;
....
120.          *nr_tx_rings, *nr_tx_slots,
```

NULL Pointer Dereference\Path 48:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1366
Status	New

The variable declared in 0 at frebsd-src-2/valectl.c in line 85 is not initialized when it is used by Pointer at frebsd-src-2/valectl.c in line 85.

	Source	Destination
File	frebsd-src-2/valectl.c	frebsd-src-2/valectl.c
Line	94	121

Object	0	Pointer
--------	---	---------

Code Snippet

File Name freebsd-src-2/valectl.c
Method parse_ring_config(const char* conf,

```
....
94.     *nr_tx_rings = *nr_rx_rings = 0;
....
121.                                     *nr_rx_rings, *nr_rx_slots);
```

NULL Pointer Dereference\Path 49:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1367
Status	New

The variable declared in 0 at freebsd-src-2/valectl.c in line 85 is not initialized when it is used by Pointer at freebsd-src-2/valectl.c in line 85.

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	95	120
Object	0	Pointer

Code Snippet

File Name freebsd-src-2/valectl.c
Method parse_ring_config(const char* conf,

```
....
95.     *nr_tx_slots = *nr_rx_slots = 0;
....
120.                                     *nr_tx_rings, *nr_tx_slots,
```

NULL Pointer Dereference\Path 50:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1368
Status	New

The variable declared in 0 at freebsd-src-2/valectl.c in line 85 is not initialized when it is used by Pointer at freebsd-src-2/valectl.c in line 85.

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c

Line	95	121
Object	0	Pointer

Code Snippet

File Name freebsd-src-2/valectl.c

Method parse_ring_config(const char* conf,

```
....
95.     *nr_tx_slots = *nr_rx_slots = 0;
....
121.                                     *nr_rx_rings, *nr_rx_slots);
```

Improper Resource Access Authorization

Query Path:

CPP\Cx\CPP Low Visibility\Improper Resource Access Authorization Version:1

Categories

FISMA 2014: Identification And Authentication

NIST SP 800-53: AC-3 Access Enforcement (P1)

OWASP Top 10 2017: A2-Broken Authentication

Description

Improper Resource Access Authorization\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=931
Status	New

	Source	Destination
File	freebsd-src-2/maketa.c	freebsd-src-2/maketa.c
Line	138	138
Object	fgets	fgets

Code Snippet

File Name freebsd-src-2/maketa.c

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

```
....
138.     while (fgets(buf, sizeof buf, fp) != NULL) {
```

Improper Resource Access Authorization\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=932
Status	New

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	803	803
Object	fgets	fgets

Code Snippet

File Name freebsd-src-2/session.c

Method do_motd(void)

```
....  
803.                while (fgets(buf, sizeof(buf), f))
```

Improper Resource Access Authorization\Path 3:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=933>

Status New

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1313	1313
Object	fgets	fgets

Code Snippet

File Name freebsd-src-2/session.c

Method do_nologin(struct passwd *pw)

```
....  
1313.                while (fgets(buf, sizeof(buf), f))
```

Improper Resource Access Authorization\Path 4:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=934>

Status New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3173	3173
Object	fgets	fgets

Code Snippet

File Name freebsd-src-2/test_main.c
Method extract_reference_file(const char *name)

```
....  
3173.             if (fgets(buff, sizeof(buff), in) == NULL) {
```

Improper Resource Access Authorization\Path 5:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=935>
Status New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3182	3182
Object	fgets	fgets

Code Snippet

File Name freebsd-src-2/test_main.c
Method extract_reference_file(const char *name)

```
....  
3182.             while (fgets(buff, sizeof(buff), in) != NULL) {
```

Improper Resource Access Authorization\Path 6:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=936>
Status New

	Source	Destination
File	freebsd-src-2/gethostid.c	freebsd-src-2/gethostid.c
Line	50	50
Object	fscanf	fscanf

Code Snippet

File Name freebsd-src-2/gethostid.c
Method get_spl_hostid(void)

```
....  
50.     if (fscanf(f, "%lx", &hostid) != 1)
```

Improper Resource Access Authorization\Path 7:

Severity Low

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=937
Status	New

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	138	138
Object	buf	buf

Code Snippet

File Name freebsd-src-2/maketab.c

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

```
....  
138.         while (fgets(buf, sizeof buf, fp) != NULL) {
```

Improper Resource Access Authorization\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=938
Status	New

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	803	803
Object	buf	buf

Code Snippet

File Name freebsd-src-2/session.c

Method do_motd(void)

```
....  
803.         while (fgets(buf, sizeof(buf), f))
```

Improper Resource Access Authorization\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=939
Status	New

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c

Line	1313	1313
Object	buf	buf

Code Snippet

File Name frebsd-src-2/session.c

Method do_nologin(struct passwd *pw)

```
....  
1313.                   while (fgets(buf, sizeof(buf), f))
```

Improper Resource Access Authorization\Path 10:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=940>

Status New

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	3173	3173
Object	buff	buff

Code Snippet

File Name frebsd-src-2/test_main.c

Method extract_reference_file(const char *name)

```
....  
3173.                   if (fgets(buff, sizeof(buff), in) == NULL) {
```

Improper Resource Access Authorization\Path 11:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=941>

Status New

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	3182	3182
Object	buff	buff

Code Snippet

File Name frebsd-src-2/test_main.c

Method extract_reference_file(const char *name)

```
.....
3182.         while (fgets(buff, sizeof(buff), in) != NULL) {
```

Improper Resource Access Authorization\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=942
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	992	992
Object	buff	buff

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_empty_file(const char *filename, int line, const char *f1)

```
.....
992.             s = fread(buff, 1, s, f);
```

Improper Resource Access Authorization\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=943
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1041	1041
Object	buff1	buff1

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_equal_file(const char *filename, int line, const char *fn1, const char *fn2)

```
.....
1041.             n1 = (int)fread(buff1, 1, sizeof(buff1), f1);
```

Improper Resource Access Authorization\Path 14:

Severity	Low
Result State	To Verify

Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=944
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1042	1042
Object	buff2	buff2

Code Snippet

File Name freebsd-src-2/test_main.c

Method assertion_equal_file(const char *filename, int line, const char *fn1, const char *fn2)

```
....  
1042.          n2 = (int)fread(buff2, 1, sizeof(buff2), f2);
```

Improper Resource Access Authorization\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=945
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1116	1116
Object	contents	contents

Code Snippet

File Name freebsd-src-2/test_main.c

Method assertion_file_contents(const char *filename, int line, const void *buff, int s, const char *fn)

```
....  
1116.          n = (int)fread(contents, 1, s * 2, f);
```

Improper Resource Access Authorization\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=946
Status	New

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

File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1154	1154
Object	contents	contents

Code Snippet

File Name freebsd-src-2/test_main.c

Method assertion_text_file_contents(const char *filename, int line, const char *buff, const char *fn)

```
....  
1154.          n = (int)fread(contents, 1, s * 2 + 128 - 1, f);
```

Improper Resource Access Authorization\Path 17:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=947>

Status New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3119	3119
Object	p	p

Code Snippet

File Name freebsd-src-2/test_main.c

Method slurpfile(size_t * sizep, const char *fmt, ...)

```
....  
3119.          bytes_read = fread(p, 1, (size_t)st.st_size, f);
```

Improper Resource Access Authorization\Path 18:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=948>

Status New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3233	3233
Object	buff	buff

Code Snippet

File Name freebsd-src-2/test_main.c

Method copy_reference_file(const char *name)

```
....  
3233.         while ((rbytes = fread(buff, 1, sizeof(buff), in)) > 0) {
```

Improper Resource Access Authorization\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=949
Status	New

	Source	Destination
File	freebsd-src-2/gethostid.c	freebsd-src-2/gethostid.c
Line	50	50
Object	Address	Address

Code Snippet

File Name freebsd-src-2/gethostid.c
Method get_spl_hostid(void)

```
....  
50.     if (fscanf(f, "%lx", &hostid) != 1)
```

Improper Resource Access Authorization\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=950
Status	New

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	3107	3107
Object	BinaryExpr	BinaryExpr

Code Snippet

File Name freebsd-src-2/buffer.c
Method evbuffer_file_segment_materialize(struct evbuffer_file_segment *seg)

```
....  
3107.         n = read(fd, mem+read_so_far, length-  
read_so_far);
```

Improper Resource Access Authorization\Path 21:

Severity	Low
----------	-----

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=951
Status	New

	Source	Destination
File	freebsd-src-2/dtstream.c	freebsd-src-2/dtstream.c
Line	1549	1549
Object	Address	Address

Code Snippet

File Name freebsd-src-2/dtstream.c

Method void dtio_cmd_cb(int fd, short ATTR_UNUSED(bits), void* arg)

```
....  
1549.      r = read(fd, &cmd, sizeof(cmd));
```

Improper Resource Access Authorization\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=952
Status	New

	Source	Destination
File	freebsd-src-2/gethostid.c	freebsd-src-2/gethostid.c
Line	73	73
Object	Address	Address

Code Snippet

File Name freebsd-src-2/gethostid.c

Method get_system_hostid(void)

```
....  
73.      if (read(fd, &system_hostid, sizeof (system_hostid))
```

Improper Resource Access Authorization\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=953
Status	New

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c

Line	482	482
Object	fprintf	fprintf

Code Snippet

File Name frebsd-src-2/cut.c

Method usage(void)

```
....  
482.                   (void) fprintf(stderr, "%s\n%s\n%s\n",
```

Improper Resource Access Authorization\Path 24:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=954>

Status New

	Source	Destination
File	frebsd-src-2/diff.c	frebsd-src-2/diff.c
Line	587	587
Object	fprintf	fprintf

Code Snippet

File Name frebsd-src-2/diff.c

Method usage(void)

```
....  
587.                   (void) fprintf(help ? stdout : stderr,
```

Improper Resource Access Authorization\Path 25:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=955>

Status New

	Source	Destination
File	frebsd-src-2/diff.c	frebsd-src-2/diff.c
Line	619	619
Object	fprintf	fprintf

Code Snippet

File Name frebsd-src-2/diff.c

Method conflicting_format(void)


```
....  
619.          fprintf(stderr, "error: conflicting output format  
options.\n");
```

Improper Resource Access Authorization\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=956
Status	New

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	351	351
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/http-server.c
Method main(int argc, char **argv)

```
....  
351.          fprintf(stderr, "Couldn't create an event_base:  
exiting\n");
```

Improper Resource Access Authorization\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=957
Status	New

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	358	358
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/http-server.c
Method main(int argc, char **argv)

```
....  
358.          fprintf(stderr, "couldn't create evhttp. Exiting.\n");
```

Improper Resource Access Authorization\Path 28:

Severity	Low
----------	-----

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=958
Status	New

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	372	372
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/http-server.c
Method main(int argc, char **argv)

```
....  
372.                fprintf(stderr, "couldn't bind to port %d.  
Exiting.\n",
```

Improper Resource Access Authorization\Path 29:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=959
Status	New

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	399	399
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/http-server.c
Method main(int argc, char **argv)

```
....  
399.                fprintf(stderr, "Weird address family %d\n",
```

Improper Resource Access Authorization\Path 30:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=960
Status	New

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

File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	410	410
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/http-server.c
Method main(int argc, char **argv)

```
....  
410.                                  fprintf(stderr, "evutil_inet_ntop failed\n");
```

Improper Resource Access Authorization\Path 31:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=961
Status	New

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	326	326
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/http-server.c
Method syntax(void)

```
....  
326.                                  fprintf(stdout, "Syntax: http-server <docroot>\n");
```

Improper Resource Access Authorization\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=962
Status	New

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	86	86
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/ipnat.c
Method usage(char *name)

```
....  
86.     fprintf(stderr, "Usage: %s [-CFhlNrRsv] [-f filename]\n", name);
```

Improper Resource Access Authorization\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=963
Status	New

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	169	169
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/ipnat.c
Method main(int argc, char *argv[])

```
....  
169.             (void) fprintf(stderr, "%s: -p must be used with -  
r\n",
```

Improper Resource Access Authorization\Path 34:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=964
Status	New

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	184	184
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/ipnat.c
Method main(int argc, char *argv[])

```
....  
184.             (void) fprintf(stderr, "%s: open: %s\n",  
IPNAT_NAME,
```

Improper Resource Access Authorization\Path 35:

Severity	Low
----------	-----

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=965
Status	New

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	194	194
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/ipnat.c
Method main(int argc, char *argv[])

```
....  
194.                fprintf(stderr, "User/kernel version check  
failed\n");
```

Improper Resource Access Authorization\Path 36:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=966
Status	New

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	253	253
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/ipnat.c
Method natstat_dead(natstat_t *nsp, char *kernel)

```
....  
253.                fprintf(stderr, "nlist error\n");
```

Improper Resource Access Authorization\Path 37:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=967
Status	New

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

File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	406	406
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/ipnat.c

Method dotable(natstat_t *nsp, int fd, int alive, int which, char *side)

```
....  
406.                fprintf(stderr,
```

Improper Resource Access Authorization\Path 38:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=968>

Status New

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	129	129
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/maketab.c

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

```
....  
129.                fprintf(stderr, "usage: maketab YTAB_H\n");
```

Improper Resource Access Authorization\Path 39:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=969>

Status New

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	133	133
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/maketab.c

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

```
....  
133.                fprintf(stderr, "maketab can't open %s!\n", argv[1]);
```

Improper Resource Access Authorization\Path 40:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=970
Status	New

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	167	167
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/maketab.c
Method int main(int argc, char *argv[])

```
....  
167.                fprintf(stderr, "maketab out of space copying  
%s", name);
```

Improper Resource Access Authorization\Path 41:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=971
Status	New

	Source	Destination
File	freebsd-src-2/mem_dbg.c	freebsd-src-2/mem_dbg.c
Line	561	561
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/mem_dbg.c
Method static void print_leak(const MEM *m, MEM_LEAK *l)

```
....  
561.                fprintf(stderr, "##> %s\n", strings[i]);
```

Improper Resource Access Authorization\Path 42:

Severity	Low
Result State	To Verify

Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=972
Status	New

	Source	Destination
File	freebsd-src-2/parsenfsfh.c	freebsd-src-2/parsenfsfh.c
Line	400	400
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/parsenfsfh.c

Method Parse_fh(netdissect_options *ndo, const unsigned char *fh, u_int len,

```
....  
400.                (void) fprintf(stderr, "%x.", GET_U_1(fhp + i));
```

Improper Resource Access Authorization\Path 43:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=973
Status	New

	Source	Destination
File	freebsd-src-2/parsenfsfh.c	freebsd-src-2/parsenfsfh.c
Line	401	401
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/parsenfsfh.c

Method Parse_fh(netdissect_options *ndo, const unsigned char *fh, u_int len,

```
....  
401.                (void) fprintf(stderr, "\n");
```

Improper Resource Access Authorization\Path 44:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=974
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c

Line	241	241
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method do_local_cmd(arglist *a)

```
....  
241.                   fprintf(stderr, "Executing:");
```

Improper Resource Access Authorization\Path 45:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=975
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	244	244
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method do_local_cmd(arglist *a)

```
....  
244.                   fprintf(stderr, "\n");
```

Improper Resource Access Authorization\Path 46:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=976
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	743	743
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method do_times(int fd, int verb, const struct stat *sb)

```
....  
743.                fprintf(stderr, "File mtime %lld atime %lld\n",
```

Improper Resource Access Authorization\Path 47:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=977
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	745	745
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method do_times(int fd, int verb, const struct stat *sb)

```
....  
745.                fprintf(stderr, "Sending file timestamps: %s", buf);
```

Improper Resource Access Authorization\Path 48:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=978
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	2097	2097
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method usage(void)

```
....  
2097.                (void) fprintf(stderr,
```

Improper Resource Access Authorization\Path 49:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=979
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	2112	2112
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method run_err(const char *fmt,...)

```
....  
2112.                (void) fprintf(fp, "%c", 0x01);
```

Improper Resource Access Authorization\Path 50:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=980
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	2113	2113
Object	fprintf	fprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method run_err(const char *fmt,...)

```
....  
2113.                (void) fprintf(fp, "scp: ");
```

Unchecked Return Value

Query Path:

CPP\Cx\CPP Low Visibility\Unchecked Return Value Version:1

Categories

NIST SP 800-53: SI-11 Error Handling (P2)

Description

Unchecked Return Value\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=980

Status	88&pathid=1164 New
--------	---

The `acpi_tz_attach` method calls the `snprintf` function, at line 201 of `freebsd-src-2/acpi_thermal.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freebsd-src-2/acpi_thermal.c</code>	<code>freebsd-src-2/acpi_thermal.c</code>
Line	262	262
Object	<code>snprintf</code>	<code>snprintf</code>

Code Snippet

File Name `freebsd-src-2/acpi_thermal.c`
Method `acpi_tz_attach(device_t dev)`

```
....
262.         snprintf(oidname, sizeof(oidname), "tz%d",
device_get_unit(dev));
```

Unchecked Return Value\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1165
Status	New

The `acpi_tz_establish` method calls the `sprintf` function, at line 386 of `freebsd-src-2/acpi_thermal.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freebsd-src-2/acpi_thermal.c</code>	<code>freebsd-src-2/acpi_thermal.c</code>
Line	411	411
Object	<code>sprintf</code>	<code>sprintf</code>

Code Snippet

File Name `freebsd-src-2/acpi_thermal.c`
Method `acpi_tz_establish(struct acpi_tz_softc *sc)`

```
....
411.         sprintf(nbuf, "_AC%d", i);
```

Unchecked Return Value\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1165

[88&pathid=1166](#)

Status New

The `acpi_tz_establish` method calls the `sprintf` function, at line 386 of `freebsd-src-2/acpi_thermal.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/acpi_thermal.c	freebsd-src-2/acpi_thermal.c
Line	413	413
Object	sprintf	sprintf

Code Snippet

File Name freebsd-src-2/acpi_thermal.c

Method `acpi_tz_establish(struct acpi_tz_softc *sc)`

```
....  
413.         sprintf(nbuf, "_AL%d", i);
```

Unchecked Return Value\Path 4:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1167>

Status New

The `fwe_ioctl` method calls the `snprintf` function, at line 353 of `freebsd-src-2/if_fwe.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/if_fwe.c	freebsd-src-2/if_fwe.c
Line	380	380
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/if_fwe.c

Method `fwe_ioctl(if_t ifp, u_long cmd, caddr_t data)`

```
....  
380.         snprintf(ifs->ascii, sizeof(ifs->ascii),
```

Unchecked Return Value\Path 5:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1168>

Status New

The `mt7615_thermal_show_temp` method calls the `sprintf` function, at line 18 of `freebsd-src-2/init.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/init.c	freebsd-src-2/init.c
Line	36	36
Object	sprintf	sprintf

Code Snippet

File Name freebsd-src-2/init.c

Method static ssize_t mt7615_thermal_show_temp(struct device *dev,

```
....  
36.     return sprintf(buf, "%u\n", temperature * 1000);
```

Unchecked Return Value\Path 6:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1169>

Status New

The `Parse_fh` method calls the `snprintf` function, at line 85 of `freebsd-src-2/parsenfsfh.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/parsenfsfh.c	freebsd-src-2/parsenfsfh.c
Line	405	405
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/parsenfsfh.c

Method Parse_fh(netdissect_options *ndo, const unsigned char *fh, u_int len,

```
....  
405.                                     (void) snprintf(&(fsidp->Opaque_Handle[i*2]), 3,  
"%0.2X",
```

Unchecked Return Value\Path 7:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1170>

Status New

The isis_print_id method calls the snprintf function, at line 1752 of freebsd-src-2/print-isoclns.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/print-isoclns.c	freebsd-src-2/print-isoclns.c
Line	1763	1763
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/print-isoclns.c

Method isis_print_id(netdissect_options *ndo, const uint8_t *cp, u_int id_len)

```
....  
1763.          snprintf(pos, sizeof(id) - (pos - id), "%02x",  
GET_U_1(cp));
```

Unchecked Return Value\Path 8:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1171>

Status New

The isis_print_id method calls the snprintf function, at line 1752 of freebsd-src-2/print-isoclns.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/print-isoclns.c	freebsd-src-2/print-isoclns.c
Line	1770	1770
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/print-isoclns.c

Method isis_print_id(netdissect_options *ndo, const uint8_t *cp, u_int id_len)

```
....  
1770.          snprintf(pos, sizeof(id) - (pos - id), "%.02x",  
GET_U_1(cp));
```

Unchecked Return Value\Path 9:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1171>

Status	88&pathid=1172 New
--------	---

The isis_print_id method calls the snprintf function, at line 1752 of freebsd-src-2/print-isoclns.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/print-isoclns.c	freebsd-src-2/print-isoclns.c
Line	1775	1775
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/print-isoclns.c

Method isis_print_id(netdissect_options *ndo, const uint8_t *cp, u_int id_len)

```
....
1775.          snprintf(pos, sizeof(id) - (pos - id), "-%02x",
GET_U_1(cp));
```

Unchecked Return Value\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1173
Status	New

The isis_print_ext_is_reach method calls the snprintf function, at line 1950 of freebsd-src-2/print-isoclns.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/print-isoclns.c	freebsd-src-2/print-isoclns.c
Line	1993	1993
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/print-isoclns.c

Method isis_print_ext_is_reach(netdissect_options *ndo,

```
....
1993.          snprintf(ident_buffer, sizeof(ident_buffer), "%s
", ident);
```

Unchecked Return Value\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1173

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1174
Status	New

The `isis_print_extd_ip_reach` method calls the `snprintf` function, at line 2272 of `freebsd-src-2/print-isoclns.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freebsd-src-2/print-isoclns.c</code>	<code>freebsd-src-2/print-isoclns.c</code>
Line	2354	2354
Object	<code>snprintf</code>	<code>snprintf</code>

Code Snippet

File Name `freebsd-src-2/print-isoclns.c`

Method `isis_print_extd_ip_reach(netdissect_options *ndo,`

```
.....  
2354.             snprintf(ident_buffer, sizeof(ident_buffer), "%s  
", ident);
```

Unchecked Return Value\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1175
Status	New

The `nfsreply_print` method calls the `snprintf` function, at line 333 of `freebsd-src-2/print-nfs.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	<code>freebsd-src-2/print-nfs.c</code>	<code>freebsd-src-2/print-nfs.c</code>
Line	345	345
Object	<code>snprintf</code>	<code>snprintf</code>

Code Snippet

File Name `freebsd-src-2/print-nfs.c`

Method `nfsreply_print(netdissect_options *ndo,`

```
.....  
345.             snprintf(dstid, sizeof(dstid), "%u",
```

Unchecked Return Value\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1175

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1176
Status	New

The nfsreply_print method calls the snprintf function, at line 333 of freebsd-src-2/print-nfs.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/print-nfs.c	freebsd-src-2/print-nfs.c
Line	348	348
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/print-nfs.c
Method nfsreply_print(netdissect_options *ndo,

```
.....
348.             snprintf(srcid, sizeof(srcid), "%u", NFS_PORT);
```

Unchecked Return Value\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1177
Status	New

The nfsreply_print method calls the snprintf function, at line 333 of freebsd-src-2/print-nfs.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/print-nfs.c	freebsd-src-2/print-nfs.c
Line	349	349
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/print-nfs.c
Method nfsreply_print(netdissect_options *ndo,

```
.....
349.             snprintf(dstid, sizeof(dstid), "%u",
```

Unchecked Return Value\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1177

Status	88&pathid=1178 New
--------	---

The respip_inform_print method calls the snprintf function, at line 1291 of freebsd-src-2/respip.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	1324	1324
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/respip.c

Method respip_inform_print(struct respip_action_info* respip_actinfo, uint8_t* qname,

```
....  
1324.         snprintf(txt+txtlen, sizeof(txt)-txtlen,
```

Unchecked Return Value\Path 16:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1179>

Status New

The respip_rewrite_reply method calls the snprintf function, at line 866 of freebsd-src-2/respip.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	966	966
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/respip.c

Method respip_rewrite_reply(const struct query_info* qinfo,

```
....  
966.         snprintf(ip, sizeof(ip),  
"invalidRRdata");
```

Unchecked Return Value\Path 17:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1179>

[88&pathid=1180](#)

Status New

The make_rsid method calls the sprintf function, at line 656 of freebsd-src-2/rtsol.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	661	661
Object	sprintf	sprintf

Code Snippet

File Name freebsd-src-2/rtsol.c

Method make_rsid(const char *ifname, const char *origin, struct rainfo *rai)

```
....  
661.          sprintf(rsid, "%s:%s", ifname, origin);
```

Unchecked Return Value\Path 18:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1181>

Status New

The make_rsid method calls the sprintf function, at line 656 of freebsd-src-2/rtsol.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	669	669
Object	sprintf	sprintf

Code Snippet

File Name freebsd-src-2/rtsol.c

Method make_rsid(const char *ifname, const char *origin, struct rainfo *rai)

```
....  
669.          sprintf(rsid, "%s:%s:[%s]", ifname, origin, hbuf);
```

Unchecked Return Value\Path 19:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1182>

Status New

The main method calls the snprintf function, at line 470 of freebsd-src-2/scp.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	687	687
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method main(int argc, char **argv)

```
....  
687.          (void) snprintf(cmd, sizeof cmd, "scp%s%s%s",
```

Unchecked Return Value\Path 20:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1183>
Status New

The do_times method calls the snprintf function, at line 734 of freebsd-src-2/scp.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	739	739
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method do_times(int fd, int verb, const struct stat *sb)

```
....  
739.          (void) snprintf(buf, sizeof(buf), "T%llu 0 %llu 0\n",
```

Unchecked Return Value\Path 21:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1184>
Status New

The source method calls the `snprintf` function, at line 1378 of `freebsd-src-2/scp.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1433	1433
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method source(int argc, char **argv)

```
....  
1433.           snprintf(buf, sizeof buf, "C%04o %lld %s\n",
```

Unchecked Return Value\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1185
Status	New

The rsource method calls the `snprintf` function, at line 1490 of `freebsd-src-2/scp.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1511	1511
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method rsource(char *name, struct stat *statp)

```
....  
1511.           (void) snprintf(path, sizeof path, "D%04o %d %.1024s\n",
```

Unchecked Return Value\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1186
Status	New

The rsource method calls the `snprintf` function, at line 1490 of `freebsd-src-2/scp.c`. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1529	1529
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method rsource(char *name, struct stat *statp)

```
....  
1529.                (void) snprintf(path, sizeof path, "%s/%s", name, dp-  
>d_name);
```

Unchecked Return Value\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1187
Status	New

The sink method calls the snprintf function, at line 1648 of freebsd-src-2/scp.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1819	1819
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
....  
1819.                (void) snprintf(namebuf, need, "%s%s%s", targ,
```

Unchecked Return Value\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1188
Status	New

The do_exec method calls the snprintf function, at line 657 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	680	680
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_exec(struct ssh *ssh, Session *s, const char *command)

```
....  
680.             snprintf(session_type, sizeof(session_type),
```

Unchecked Return Value\Path 26:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1189>

Status New

The do_exec method calls the snprintf function, at line 657 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	683	683
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_exec(struct ssh *ssh, Session *s, const char *command)

```
....  
683.             snprintf(session_type, sizeof(session_type),
```

Unchecked Return Value\Path 27:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1190>

Status New

The do_exec method calls the snprintf function, at line 657 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	686	686
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_exec(struct ssh *ssh, Session *s, const char *command)

```
....  
686.                snprintf(session_type, sizeof(session_type), "shell");
```

Unchecked Return Value\Path 28:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1191>

Status New

The do_exec method calls the snprintf function, at line 657 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	689	689
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_exec(struct ssh *ssh, Session *s, const char *command)

```
....  
689.                snprintf(session_type, sizeof(session_type),  
"command");
```

Unchecked Return Value\Path 29:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1192>

Status New

The check_quietlogin method calls the snprintf function, at line 815 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	824	824
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method check_quietlogin(Session *s, const char *command)

```
....  
824.         snprintf(buf, sizeof(buf), "%.200s/.hushlogin", pw->pw_dir);
```

Unchecked Return Value\Path 30:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1193>

Status New

The do_setup_env method calls the snprintf function, at line 982 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1035	1035
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_setup_env(struct ssh *ssh, Session *s, const char *shell)

```
....  
1035.         snprintf(buf, sizeof buf, "%.200s/%.50s", _PATH_MAILDIR, pw->pw_name);
```

Unchecked Return Value\Path 31:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1194>

Status New

The do_setup_env method calls the snprintf function, at line 982 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1138	1138
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_setup_env(struct ssh *ssh, Session *s, const char *shell)

```
....  
1138.          snprintf(buf, sizeof buf, "%.200s/%s/environment",
```

Unchecked Return Value\Path 32:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1195>

Status New

The do_setup_env method calls the snprintf function, at line 982 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1182	1182
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_setup_env(struct ssh *ssh, Session *s, const char *shell)

```
....  
1182.          snprintf(buf, sizeof buf, "%.50s %d %d",
```

Unchecked Return Value\Path 33:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1196>

Status New

The do_setup_env method calls the snprintf function, at line 982 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1188	1188
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_setup_env(struct ssh *ssh, Session *s, const char *shell)

```
....  
1188.         snprintf(buf, sizeof buf, "%.50s %d %.50s %d",
```

Unchecked Return Value\Path 34:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1197>

Status New

The do_setusercontext method calls the snprintf function, at line 1376 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1410	1410
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method do_setusercontext(struct passwd *pw)

```
....  
1410.         snprintf(uidstr, sizeof(uidstr), "%llu",
```

Unchecked Return Value\Path 35:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1198>

Status New

The session_setup_x11fwd method calls the snprintf function, at line 2589 of freebsd-src-2/session.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	2633	2633
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method session_setup_x11fwd(struct ssh *ssh, Session *s)

```
....  
2633.                snprintf(display, sizeof display, "localhost:%u.%u",
```

Unchecked Return Value\Path 36:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1199>

Status New

The session_setup_x11fwd method calls the snprintf function, at line 2589 of freebsd-src-2/session.c.

However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	2635	2635
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method session_setup_x11fwd(struct ssh *ssh, Session *s)

```
....  
2635.                snprintf(auth_display, sizeof auth_display,  
"unix:%u.%u",
```

Unchecked Return Value\Path 37:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1200>

Status New

The session_setup_x11fwd method calls the snprintf function, at line 2589 of freebsd-src-2/session.c.

However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	2651	2651
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/session.c

Method session_setup_x11fwd(struct ssh *ssh, Session *s)

```
....  
2651.             snprintf(display, sizeof display, "%.50s:%u.%u",  
inet_ntoa(my_addr),
```

Unchecked Return Value\Path 38:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1201>

Status New

The md method calls the snprintf function, at line 59 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	62	62
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method md(char *buf, size_t buflen, const char *base, const char *tail)

```
....  
62.     snprintf(buf, buflen, "%s/%s", base, tail);
```

Unchecked Return Value\Path 39:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1202>

Status New

The lookup_simple method calls the snprintf function, at line 67 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	73	73
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method lookup_simple(const atf_tc_t *tc, const char *mountpath)

```
....  
73.    snprintf(pb, sizeof(pb), "%s/../%s", mountpath, basename(final));
```

Unchecked Return Value\Path 40:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1203>

Status New

The lookup_simple method calls the snprintf function, at line 67 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	77	77
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method lookup_simple(const atf_tc_t *tc, const char *mountpath)

```
....  
77.    snprintf(pb, sizeof(pb), "%s/../../%s", mountpath,  
basename(final));
```

Unchecked Return Value\Path 41:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1204>

Status New

The lookup_complex method calls the snprintf function, at line 85 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	93	93
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method lookup_complex(const atf_tc_t *tc, const char *mountpath)

```
....  
93.    snprintf(pb, sizeof(pb), "%s/dir", mountpath);
```

Unchecked Return Value\Path 42:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1205>

Status New

The lookup_complex method calls the snprintf function, at line 85 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	99	99
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method lookup_complex(const atf_tc_t *tc, const char *mountpath)

```
....  
99.    snprintf(pb, sizeof(pb), "%s/./dir/../../dir/.", mountpath);
```

Unchecked Return Value\Path 43:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1206>

Status New

The dir_simple method calls the snprintf function, at line 156 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	164	164
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method dir_simple(const atf_tc_t *tc, const char *mountpath)

```
....  
164.         snprintf(pb, sizeof(pb), "%s/dir", mountpath);
```

Unchecked Return Value\Path 44:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1207>

Status New

The dir_notempty method calls the snprintf function, at line 178 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	186	186
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method dir_notempty(const atf_tc_t *tc, const char *mountpath)

```
....  
186.         snprintf(pb, sizeof(pb), "%s/dir", mountpath);
```

Unchecked Return Value\Path 45:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1208>

Status New

The dir_notempty method calls the snprintf function, at line 178 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	190	190
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method dir_notempty(const atf_tc_t *tc, const char *mountpath)

```
....  
190.             snprintf(pb2, sizeof(pb2), "%s/dir/file", mountpath);
```

Unchecked Return Value\Path 46:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1209>

Status New

The create_many method calls the snprintf function, at line 458 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	484	484
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method create_many(const atf_tc_t *tc, const char *mp)

```
....  
484.             snprintf(buf, sizeof(buf), TESTFN "%d", i);
```

Unchecked Return Value\Path 47:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1210>

Status New

The create_many method calls the snprintf function, at line 458 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	491	491
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method create_many(const atf_tc_t *tc, const char *mp)

```
....  
491.             snprintf(buf, sizeof(buf), TESTFN "%d", i);
```

Unchecked Return Value\Path 48:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1211>

Status New

The create_nonalphanum method calls the snprintf function, at line 507 of freebsd-src-2/t_vnops.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/t_vnops.c	freebsd-src-2/t_vnops.c
Line	516	516
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/t_vnops.c

Method create_nonalphanum(const atf_tc_t *tc, const char *mp)

```
....  
516.             snprintf(buf, sizeof(buf), "%c", i);
```

Unchecked Return Value\Path 49:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1212>

Status New

The suboption method calls the snprintf function, at line 704 of freebsd-src-2/telnet.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	723	723
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/telnet.c
Method suboption()

```
....  
723.             snprintf((char *)temp, sizeof(temp),
```

Unchecked Return Value\Path 50:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1213
Status	New

The suboption method calls the snprintf function, at line 704 of freebsd-src-2/telnet.c. However, the code does not check the return value from this function, and thus would not detect runtime errors or other unexpected states.

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	746	746
Object	snprintf	snprintf

Code Snippet

File Name freebsd-src-2/telnet.c
Method suboption()

```
....  
746.             snprintf((char *)temp, sizeof(temp),
```

Use of Sizeof On a Pointer Type

Query Path:

CPP\Cx\CPP Low Visibility\Use of Sizeof On a Pointer Type Version:1

[Description](#)

Use of Sizeof On a Pointer Type\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1266
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	291
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c

Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```

....
218.     const struct eigrp_tlv_header *eigrp_tlv_header;
....
291.     if (eigrp_tlv_len < sizeof(struct eigrp_tlv_header) ||

```

Use of Sizeof On a Pointer Type\Path 2:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1267>

Status New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	284
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c

Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```

....
218.     const struct eigrp_tlv_header *eigrp_tlv_header;
....
284.     ND_TCHECK_LEN(tptr, sizeof(struct eigrp_tlv_header));

```

Use of Sizeof On a Pointer Type\Path 3:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1268>

Status New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	293

Object	eigrp_tlv_header	sizeof
--------	------------------	--------

Code Snippet

File Name freebsd-src-2/print-eigrp.c

Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```
....
218.      const struct eigrp_tlv_header *eigrp_tlv_header;
....
293.      print_unknown_data(ndo, tptr+sizeof(struct
eigrp_tlv_header), "\n\t", tlen);
```

Use of Sizeof On a Pointer Type\Path 4:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1269>

Status New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	304
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c

Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```
....
218.      const struct eigrp_tlv_header *eigrp_tlv_header;
....
304.      if (eigrp_tlv_len < sizeof(struct eigrp_tlv_header)) {
```

Use of Sizeof On a Pointer Type\Path 5:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1270>

Status New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	306
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c

Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```
....  
218.      const struct eigrp_tlv_header *eigrp_tlv_header;  
....  
306.      sizeof(struct eigrp_tlv_header));
```

Use of Sizeof On a Pointer Type\Path 6:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1271>

Status New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	309
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c

Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```
....  
218.      const struct eigrp_tlv_header *eigrp_tlv_header;  
....  
309.      tlv_tptr=tptr+sizeof(struct eigrp_tlv_header);
```

Use of Sizeof On a Pointer Type\Path 7:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1272>

Status New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	310
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c

Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```

.....
218.         const struct eigrp_tlv_header *eigrp_tlv_header;
.....
310.         tlv_tlen=eigrp_tlv_len-sizeof(struct eigrp_tlv_header);

```

Use of Sizeof On a Pointer Type\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1273
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	321
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```

.....
218.         const struct eigrp_tlv_header *eigrp_tlv_header;
.....
321.         sizeof(struct eigrp_tlv_header) +
sizeof(*tlv_ptr.eigrp_tlv_general_parm));

```

Use of Sizeof On a Pointer Type\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1274
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	338
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)


```

.....
218.         const struct eigrp_tlv_header *eigrp_tlv_header;
.....
338.         sizeof(struct eigrp_tlv_header) +
sizeof(*tlv_ptr.eigrp_tlv_sw_version));

```

Use of Sizeof On a Pointer Type\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1275
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	353
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```

.....
218.         const struct eigrp_tlv_header *eigrp_tlv_header;
.....
353.         sizeof(struct eigrp_tlv_header) +
sizeof(*tlv_ptr.eigrp_tlv_ip_int));

```

Use of Sizeof On a Pointer Type\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1276
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	388
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```

.....
218.         const struct eigrp_tlv_header *eigrp_tlv_header;
.....
388.                                sizeof(struct eigrp_tlv_header) +
sizeof(*tlv_ptr.eigrp_tlv_ip_ext));

```

Use of Sizeof On a Pointer Type\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1277
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	431
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```

.....
218.         const struct eigrp_tlv_header *eigrp_tlv_header;
.....
431.                                sizeof(struct eigrp_tlv_header) +
sizeof(*tlv_ptr.eigrp_tlv_at_cable_setup));

```

Use of Sizeof On a Pointer Type\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1278
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	445
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```
....
218.      const struct eigrp_tlv_header *eigrp_tlv_header;
....
445.      sizeof(struct eigrp_tlv_header) +
sizeof(*tlv_ptr.eigrp_tlv_at_int));
```

Use of Sizeof On a Pointer Type\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1279
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	473
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```
....
218.      const struct eigrp_tlv_header *eigrp_tlv_header;
....
473.      sizeof(struct eigrp_tlv_header) +
sizeof(*tlv_ptr.eigrp_tlv_at_ext));
```

Use of Sizeof On a Pointer Type\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1280
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	523
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```
....
218.      const struct eigrp_tlv_header *eigrp_tlv_header;
....
523.          print_unknown_data(ndo, tptr+sizeof(struct
eigrp_tlv_header), "\n\t    ",
```

Use of Sizeof On a Pointer Type\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1281
Status	New

	Source	Destination
File	freebsd-src-2/print-eigrp.c	freebsd-src-2/print-eigrp.c
Line	218	524
Object	eigrp_tlv_header	sizeof

Code Snippet

File Name freebsd-src-2/print-eigrp.c
Method eigrp_print(netdissect_options *ndo, const u_char *pptr, u_int len)

```
....
218.      const struct eigrp_tlv_header *eigrp_tlv_header;
....
524.          eigrp_tlv_len=sizeof(struct
eigrp_tlv_header));
```

Use of Sizeof On a Pointer Type\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1282
Status	New

	Source	Destination
File	freebsd-src-2/print-lwapp.c	freebsd-src-2/print-lwapp.c
Line	170	230
Object	lwapp_control_header	sizeof

Code Snippet

File Name freebsd-src-2/print-lwapp.c
Method lwapp_control_print(netdissect_options *ndo,

```
.....
170.         const struct lwapp_control_header *lwapp_control_header;
.....
230.         if (tlen < sizeof(struct lwapp_control_header)) {
```

Use of Sizeof On a Pointer Type\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1283
Status	New

	Source	Destination
File	freebsd-src-2/print-lwapp.c	freebsd-src-2/print-lwapp.c
Line	170	229
Object	lwapp_control_header	sizeof

Code Snippet

File Name freebsd-src-2/print-lwapp.c
Method lwapp_control_print(netdissect_options *ndo,

```
.....
170.         const struct lwapp_control_header *lwapp_control_header;
.....
229.         ND_TCHECK_LEN(tptr, sizeof(struct lwapp_control_header));
```

Use of Sizeof On a Pointer Type\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1284
Status	New

	Source	Destination
File	freebsd-src-2/print-lwapp.c	freebsd-src-2/print-lwapp.c
Line	170	237
Object	lwapp_control_header	sizeof

Code Snippet

File Name freebsd-src-2/print-lwapp.c
Method lwapp_control_print(netdissect_options *ndo,

```
.....
170.         const struct lwapp_control_header *lwapp_control_header;
.....
237.         if (tlen < sizeof(struct lwapp_control_header) + msg_tlen)
{
```

Use of Sizeof On a Pointer Type\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1285
Status	New

	Source	Destination
File	freebsd-src-2/print-lwapp.c	freebsd-src-2/print-lwapp.c
Line	170	291
Object	lwapp_control_header	sizeof

Code Snippet

File Name freebsd-src-2/print-lwapp.c
Method lwapp_control_print(netdissect_options *ndo,

```
.....
170.         const struct lwapp_control_header *lwapp_control_header;
.....
291.         tptr += sizeof(struct lwapp_control_header) + msg_tlen;
```

Use of Sizeof On a Pointer Type\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1286
Status	New

	Source	Destination
File	freebsd-src-2/print-lwapp.c	freebsd-src-2/print-lwapp.c
Line	170	292
Object	lwapp_control_header	sizeof

Code Snippet

File Name freebsd-src-2/print-lwapp.c
Method lwapp_control_print(netdissect_options *ndo,

```
.....
170.         const struct lwapp_control_header *lwapp_control_header;
.....
292.         tlen -= sizeof(struct lwapp_control_header) + msg_tlen;
```

Use of Sizeof On a Pointer Type\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1287
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3340	3350
Object	marker	sizeof

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_entry_compare_acls(const char *file, int line,

```
.....
3340.         int *marker;
.....
3350.         marker = malloc(sizeof(marker[0]) * cnt);
```

Use of Sizeof On a Pointer Type\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1288
Status	New

	Source	Destination
File	freebsd-src-2/vnic_dev.c	freebsd-src-2/vnic_dev.c
Line	245	277
Object	args	sizeof

Code Snippet

File Name freebsd-src-2/vnic_dev.c
Method static int vnic_dev_cmd_proxy(struct vnic_dev *vdev,

```
.....
245.         u64 *args, int nargs, int wait)
.....
277.         memcpy(args, &vdev->args[1], nargs * sizeof(args[0]));
```

Use of Sizeof On a Pointer Type\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1289
Status	New

	Source	Destination
File	freebsd-src-2/vnic_dev.c	freebsd-src-2/vnic_dev.c
Line	245	262
Object	args	sizeof

Code Snippet

File Name freebsd-src-2/vnic_dev.c

Method static int vnic_dev_cmd_proxy(struct vnic_dev *vdev,

```
....  
245.         u64 *args, int nargs, int wait)  
....  
262.         memcpy(&vdev->args[2], args, nargs * sizeof(args[0]));
```

Use of Sizeof On a Pointer Type\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1290
Status	New

	Source	Destination
File	freebsd-src-2/vnic_dev.c	freebsd-src-2/vnic_dev.c
Line	283	296
Object	args	sizeof

Code Snippet

File Name freebsd-src-2/vnic_dev.c

Method static int vnic_dev_cmd_no_proxy(struct vnic_dev *vdev,

```
....  
283.         enum vnic_devcmd_cmd cmd, u64 *args, int nargs, int wait)  
....  
296.         memcpy(args, vdev->args, nargs * sizeof(args[0]));
```

Use of Sizeof On a Pointer Type\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1290

Status	88&pathid=1291 New
--------	---

	Source	Destination
File	freebsd-src-2/vnic_dev.c	freebsd-src-2/vnic_dev.c
Line	283	292
Object	args	sizeof

Code Snippet

File Name freebsd-src-2/vnic_dev.c

Method static int vnic_dev_cmd_no_proxy(struct vnic_dev *vdev,

```
.....
283.          enum vnic_devcmd_cmd cmd, u64 *args, int nargs, int wait)
.....
292.          memcpy(vdev->args, args, nargs * sizeof(args[0]));
```

Use of Sizeof On a Pointer Type\Path 27:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1292>

Status New

	Source	Destination
File	freebsd-src-2/acpi_thermal.c	freebsd-src-2/acpi_thermal.c
Line	988	988
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/acpi_thermal.c

Method acpi_tz_thread(void *arg)

```
.....
988.          sc = malloc(sizeof(struct acpi_tz_softc *) * devcount,
M_TEMP,
```

Use of Sizeof On a Pointer Type\Path 28:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1293>

Status New

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c

Line	234	234
Object	sizeof	sizeof

Code Snippet

File Name frebsd-src-2/cachedump.c

Method copy_msg(struct regional* region, struct lruhash_entry* e,

```
....
234.                sizeof(struct ub_packed_rrset_key*) * rep-
>rrset_count);
```

Use of Sizeof On a Pointer Type\Path 29:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1294>

Status New

	Source	Destination
File	frebsd-src-2/cachedump.c	frebsd-src-2/cachedump.c
Line	404	404
Object	sizeof	sizeof

Code Snippet

File Name frebsd-src-2/cachedump.c

Method move_into_cache(struct ub_packed_rrset_key* k,

```
....
404.                s = sizeof(*ad) + (sizeof(size_t) + sizeof(uint8_t*) +
```

Use of Sizeof On a Pointer Type\Path 30:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1295>

Status New

	Source	Destination
File	frebsd-src-2/cachedump.c	frebsd-src-2/cachedump.c
Line	419	419
Object	sizeof	sizeof

Code Snippet

File Name frebsd-src-2/cachedump.c

Method move_into_cache(struct ub_packed_rrset_key* k,

```
.....
419.         memmove(p, &d->rr_data[0], sizeof(uint8_t*) * num);
```

Use of Sizeof On a Pointer Type\Path 31:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1296
Status	New

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	420	420
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/cachedump.c
Method move_into_cache(struct ub_packed_rrset_key* k,

```
.....
420.         p += sizeof(uint8_t*) * num;
```

Use of Sizeof On a Pointer Type\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1297
Status	New

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	494	494
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/cachedump.c
Method load_rrset(RES* ssl, sldns_buffer* buf, struct worker* worker)

```
.....
494.         sizeof(uint8_t*) * (d->count + d->rrsig_count));
```

Use of Sizeof On a Pointer Type\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1298

Status	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1298 New
--------	---

	Source	Destination
File	freebsd-src-2/cachedump.c	freebsd-src-2/cachedump.c
Line	670	670
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/cachedump.c

Method load_msg(RES* ssl, sldns_buffer* buf, struct worker* worker)

```
....
670.                region, sizeof(struct
ub_packed_rrset_key*) *rep.rrset_count);
```

Use of Sizeof On a Pointer Type\Path 34:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1299
Status	New

	Source	Destination
File	freebsd-src-2/glob.c	freebsd-src-2/glob.c
Line	460	460
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/glob.c

Method glob(const char *pattern, int flags, int (*errfunc) (const char *, int),

```
....
460.                pglob->gl_pathc - oldpathc, sizeof(char *), compare);
```

Use of Sizeof On a Pointer Type\Path 35:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1300
Status	New

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c

Line	620	620
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/ipnat.c

Method showhostmap_dead(natstat_t *nsp)

```
....  
620.                maptable = (hostmap_t **)malloc(sizeof(hostmap_t *) *
```

Use of Sizeof On a Pointer Type\Path 36:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1301>

Status New

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	623	623
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/ipnat.c

Method showhostmap_dead(natstat_t *nsp)

```
....  
623.                        sizeof(hostmap_t *) * nsp->ns_hostmap_sz)) {
```

Use of Sizeof On a Pointer Type\Path 37:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1302>

Status New

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	520	520
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/respip.c

Method respip_copy_rrset(const struct ub_packed_rrset_key* key, struct regional* region)

```
.....
520.                (sizeof(size_t)+sizeof(uint8_t*))+sizeof(time_t));
```

Use of Sizeof On a Pointer Type\Path 38:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1303
Status	New

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	998	998
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/session.c
 Method do_setup_env(struct ssh *ssh, Session *s, const char *shell)

```
.....
998.                env = xcalloc(envsize, sizeof(char *));
```

Use of Sizeof On a Pointer Type\Path 39:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1304
Status	New

	Source	Destination
File	freebsd-src-2/sh.glob.c	freebsd-src-2/sh.glob.c
Line	261	261
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/sh.glob.c
 Method expbrace(Char ***nvp, Char ***elp, int size)

```
.....
261.                nv = xrealloc(nv, size * sizeof(Char *));
```

Use of Sizeof On a Pointer Type\Path 40:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1305
Status	New

	Source	Destination
File	freebsd-src-2/sh.glob.c	freebsd-src-2/sh.glob.c
Line	303	303
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/sh.glob.c
Method globexpand(Char **v, int noglob)

```
....  
303.         fnv = xmalloc(sizeof(Char ***));
```

Use of Sizeof On a Pointer Type\Path 41:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1306
Status	New

	Source	Destination
File	freebsd-src-2/sh.glob.c	freebsd-src-2/sh.glob.c
Line	304	304
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/sh.glob.c
Method globexpand(Char **v, int noglob)

```
....  
304.         *fnv = vl = xmalloc(sizeof(Char *) * size);
```

Use of Sizeof On a Pointer Type\Path 42:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1307
Status	New

	Source	Destination
File	freebsd-src-2/sh.glob.c	freebsd-src-2/sh.glob.c
Line	321	321

Object	sizeof	sizeof
--------	--------	--------

Code Snippet

File Name frebsd-src-2/sh.glob.c
Method globexpand(Char **v, int noglob)

```
....  
321.                               *fnn = xrealloc(*fnn, size * sizeof(Char *));
```

Use of Sizeof On a Pointer Type\Path 43:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1308>
Status New

	Source	Destination
File	frebsd-src-2/sh.glob.c	frebsd-src-2/sh.glob.c
Line	331	331
Object	sizeof	sizeof

Code Snippet

File Name frebsd-src-2/sh.glob.c
Method globexpand(Char **v, int noglob)

```
....  
331.                               *fnn = xrealloc(*fnn, size * sizeof(Char *));
```

Use of Sizeof On a Pointer Type\Path 44:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1309>
Status New

	Source	Destination
File	frebsd-src-2/sh.glob.c	frebsd-src-2/sh.glob.c
Line	904	904
Object	sizeof	sizeof

Code Snippet

File Name frebsd-src-2/sh.glob.c
Method Gnmatch(const Char *string, const Char *pattern, const Char **endstr)


```
....
904.         fblk = xmalloc(sizeof(Char ***));
```

Use of Sizeof On a Pointer Type\Path 45:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1310
Status	New

	Source	Destination
File	freebsd-src-2/sh.glob.c	freebsd-src-2/sh.glob.c
Line	905	905
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/sh.glob.c
Method Gnmatch(const Char *string, const Char *pattern, const Char **endstr)

```
....
905.         *fblk = xmalloc(GLOBSpace * sizeof(Char *));
```

Use of Sizeof On a Pointer Type\Path 46:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1311
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	537	537
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c
Method mklist(char *buf, char *name)

```
....
537.         argv = (char **)malloc((n+3)*sizeof(char *));
```

Use of Sizeof On a Pointer Type\Path 47:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1312
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1225	1225
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/test_main.c

Method assertion_file_contains_lines_any_order(const char *file, int line,

```
....  
1225.                expected = malloc(sizeof(char *) * expected_count);
```

Use of Sizeof On a Pointer Type\Path 48:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1313>

Status New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1248	1248
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/test_main.c

Method assertion_file_contains_lines_any_order(const char *file, int line,

```
....  
1248.                actual = calloc(sizeof(char *), actual_count);
```

Use of Sizeof On a Pointer Type\Path 49:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1314>

Status New

	Source	Destination
File	freebsd-src-2/val_utils.c	freebsd-src-2/val_utils.c
Line	956	956

Object	sizeof	sizeof
--------	--------	--------

Code Snippet

File Name freebsd-src-2/val_utils.c

Method void val_reply_remove_auth(struct reply_info* rep, size_t index)

```
....
956.                sizeof(struct ub_packed_rrset_key*) *
```

Use of Sizeof On a Pointer Type\Path 50:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1315>

Status New

	Source	Destination
File	freebsd-src-2/val_utils.c	freebsd-src-2/val_utils.c
Line	993	993
Object	sizeof	sizeof

Code Snippet

File Name freebsd-src-2/val_utils.c

Method val_check_nonsecure(struct module_env* env, struct reply_info* rep)

```
....
993.                sizeof(struct ub_packed_rrset_key*) *
```

Use of Obsolete Functions

Query Path:

CPP\Cx\CPP Low Visibility\Use of Obsolete Functions Version:0

Categories

OWASP Top 10 2013: A9-Using Components with Known Vulnerabilities

OWASP Top 10 2017: A9-Using Components with Known Vulnerabilities

Description

Use of Obsolete Functions\Path 1:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1485>

Status New

Method bwi_rf_map_txpower in freebsd-src-2/bwirf.c, at line 1085, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

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

File	freebsd-src-2/bwif.c	freebsd-src-2/bwif.c
Line	1153	1153
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/bwif.c

Method bwi_rf_map_txpower(struct bwi_mac *mac)

```
....  
1153.                bcopy(bwi_txpower_map_11b, rf->rf_txpower_map0,
```

Use of Obsolete Functions\Path 2:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1486>

Status New

Method bwi_rf_map_txpower in freebsd-src-2/bwif.c, at line 1085, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/bwif.c	freebsd-src-2/bwif.c
Line	1197	1197
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/bwif.c

Method bwi_rf_map_txpower(struct bwi_mac *mac)

```
....  
1197.                bcopy(txpower_map, rf->rf_txpower_map0,
```

Use of Obsolete Functions\Path 3:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1487>

Status New

Method _bwi_rf_lo_update_11g in freebsd-src-2/bwif.c, at line 1450, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/bwif.c	freebsd-src-2/bwif.c
Line	1482	1482
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/bwirf.c

Method _bwi_rf_lo_update_11g(struct bwi_mac *mac, uint16_t orig_rf7a)

```
....
1482.                                     bcopy(lo, &lo_save,
sizeof(lo_save));
```

Use of Obsolete Functions\Path 4:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1488>

Status New

Method _bwi_rf_lo_update_11g in freebsd-src-2/bwirf.c, at line 1450, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1486	1486
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/bwirf.c

Method _bwi_rf_lo_update_11g(struct bwi_mac *mac, uint16_t orig_rf7a)

```
....
1486.                                     bcopy(lo, &lo_save,
sizeof(lo_save));
```

Use of Obsolete Functions\Path 5:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1489>

Status New

Method _bwi_rf_lo_update_11g in freebsd-src-2/bwirf.c, at line 1450, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1513	1513
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/bwirf.c

Method `_bwi_rf_lo_update_11g(struct bwi_mac *mac, uint16_t orig_rf7a)`

```
....  
1513.                                bcopy(lo, &lo_save, sizeof(lo_save));
```

Use of Obsolete Functions\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1490
Status	New

Method `bwi_rf_lo_measure_11g` in `freebsd-src-2/bwif.c`, at line 1547, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/bwif.c</code>	<code>freebsd-src-2/bwif.c</code>
Line	1569	1569
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/bwif.c`
Method `bwi_rf_lo_measure_11g(struct bwi_mac *mac, const struct bwi_rf_lo *src_lo,`

```
....  
1569.                                bcopy(src_lo, &lo_min, sizeof(lo_min));
```

Use of Obsolete Functions\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1491
Status	New

Method `bwi_rf_lo_measure_11g` in `freebsd-src-2/bwif.c`, at line 1547, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/bwif.c</code>	<code>freebsd-src-2/bwif.c</code>
Line	1600	1600
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/bwif.c`
Method `bwi_rf_lo_measure_11g(struct bwi_mac *mac, const struct bwi_rf_lo *src_lo,`

```
....  
1600.                                bcopy(&lo_min, &lo_base, sizeof(lo_base));
```

Use of Obsolete Functions\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1492
Status	New

Method `bwi_rf_lo_measure_11g` in `freebsd-src-2/bwirf.c`, at line 1547, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/bwirf.c</code>	<code>freebsd-src-2/bwirf.c</code>
Line	1618	1618
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/bwirf.c`

Method `bwi_rf_lo_measure_11g(struct bwi_mac *mac, const struct bwi_rf_lo *src_lo,`

```
....  
1618.                                     bcopy(&lo, &lo_min, sizeof(lo_min));
```

Use of Obsolete Functions\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1493
Status	New

Method `bwi_rf_lo_measure_11g` in `freebsd-src-2/bwirf.c`, at line 1547, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/bwirf.c</code>	<code>freebsd-src-2/bwirf.c</code>
Line	1630	1630
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/bwirf.c`

Method `bwi_rf_lo_measure_11g(struct bwi_mac *mac, const struct bwi_rf_lo *src_lo,`

```
....  
1630.             bcopy(&lo_min, dst_lo, sizeof(*dst_lo));
```

Use of Obsolete Functions\Path 10:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1494
Status	New

Method `bwi_rf_clear_state` in `freebsd-src-2/bwirf.c`, at line 2247, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/bwirf.c</code>	<code>freebsd-src-2/bwirf.c</code>
Line	2265	2265
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/bwirf.c`

Method `bwi_rf_clear_state(struct bwi_rf *rf)`

```
....
2265.         bcopy(rf->rf_txpower_map0, rf->rf_txpower_map,
```

Use of Obsolete Functions\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1495
Status	New

Method `ip6_output` in `freebsd-src-2/ip6_output.c`, at line 409, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/ip6_output.c</code>	<code>freebsd-src-2/ip6_output.c</code>
Line	1088	1088
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/ip6_output.c`

Method `ip6_output(struct mbuf *m0, struct ip6_pktopts *opt,`

```
....
1088.         bcopy((fwd_tag+1), &dst_sa, sizeof(struct
sockaddr_in6));
```

Use of Obsolete Functions\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1496
Status	New

Method ip6_copyexthdr in freebsd-src-2/ip6_output.c, at line 1297, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	1312	1312
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_copyexthdr(struct mbuf **mp, caddr_t hdr, int hlen)

```
....
1312.                bcopy(hdr, mtod(m, caddr_t), hlen);
```

Use of Obsolete Functions\Path 13:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1497>

Status New

Method ip6_insert_jumboopt in freebsd-src-2/ip6_output.c, at line 1322, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	1373	1373
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_insert_jumboopt(struct ip6_exthdrs *exthdrs, u_int32_t plen)

```
....
1373.                bcopy(mtod(mopt, caddr_t), mtod(n, caddr_t),
```

Use of Obsolete Functions\Path 14:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1498>

Status New

Method ip6_insert_jumboopt in freebsd-src-2/ip6_output.c, at line 1322, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

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

File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	1397	1397
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_insert_jumboopt(struct ip6_exthdrs *exthdrs, u_int32_t plen)

```
....  
1397.         bcopy(&v, &optbuf[4], sizeof(u_int32_t));
```

Use of Obsolete Functions\Path 15:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1499>

Status New

Method ip6_ctloutput in freebsd-src-2/ip6_output.c, at line 1600, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2305	2305
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_ctloutput(struct socket *so, struct sockopt *sopt)

```
....  
2305.         bcopy(&inp->in6p_faddr, &addr,  
sizeof(addr));
```

Use of Obsolete Functions\Path 16:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1500>

Status New

Method ip6_getpcbopt in freebsd-src-2/ip6_output.c, at line 2580, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2599	2599

Object	bcopy	bcopy
--------	-------	-------

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_getpcbopt(struct inpcb *inp, int optname, struct sockopt *sopt)

```
....
2599.                                bcopy(pktopt->ip6po_pktinfo, &null_pktinfo,
```

Use of Obsolete Functions\Path 17:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1501>

Status New

Method ip6_getpcbopt in freebsd-src-2/ip6_output.c, at line 2580, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2615	2615
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_getpcbopt(struct inpcb *inp, int optname, struct sockopt *sopt)

```
....
2615.                                GET_PKTTOPT_EXT_HDR(ip6po_hbh);
```

Use of Obsolete Functions\Path 18:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1502>

Status New

Method ip6_getpcbopt in freebsd-src-2/ip6_output.c, at line 2580, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2618	2618
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_getpcbopt(struct inpcb *inp, int optname, struct sockopt *sopt)

```
....  
2618.          GET_PKTOPT_EXT_HDR(ip6po_rthdr);
```

Use of Obsolete Functions\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1503
Status	New

Method ip6_getpcbopt in freebsd-src-2/ip6_output.c, at line 2580, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2621	2621
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c
Method ip6_getpcbopt(struct inpcb *inp, int optname, struct sockopt *sopt)

```
....  
2621.          GET_PKTOPT_EXT_HDR(ip6po_dest1);
```

Use of Obsolete Functions\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1504
Status	New

Method ip6_getpcbopt in freebsd-src-2/ip6_output.c, at line 2580, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2624	2624
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c
Method ip6_getpcbopt(struct inpcb *inp, int optname, struct sockopt *sopt)

```
....  
2624.          GET_PKTOPT_EXT_HDR(ip6po_dest2);
```

Use of Obsolete Functions\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1505
Status	New

Method ip6_getpcbopt in freebsd-src-2/ip6_output.c, at line 2580, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2627	2627
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c
Method ip6_getpcbopt(struct inpcb *inp, int optname, struct sockopt *sopt)

```
....
2627.             GET_PKTOPT_SOCKADDR(ip6po_nexthop);
```

Use of Obsolete Functions\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1506
Status	New

Method copypktopts in freebsd-src-2/ip6_output.c, at line 2727, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2751	2751
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c
Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....
2751.             bcopy(src->ip6po_nexthop, dst->ip6po_nexthop,
```

Use of Obsolete Functions\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1507

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1507
Status	New

Method copypktopts in freebsd-src-2/ip6_output.c, at line 2727, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2754	2754
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....  
2754.          PKTOPT_EXTHDRCPY(ip6po_hbh);
```

Use of Obsolete Functions\Path 24:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1508>

Status New

Method copypktopts in freebsd-src-2/ip6_output.c, at line 2727, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2755	2755
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....  
2755.          PKTOPT_EXTHDRCPY(ip6po_dest1);
```

Use of Obsolete Functions\Path 25:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1509>

Status New

Method copypktopts in freebsd-src-2/ip6_output.c, at line 2727, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2756	2756
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....  
2756.          PKTOPT_EXTHDRCPY(ip6po_dest2);
```

Use of Obsolete Functions\Path 26:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1510>

Status New

Method copypktopts in freebsd-src-2/ip6_output.c, at line 2727, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2757	2757
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method copypktopts(struct ip6_pktopts *dst, struct ip6_pktopts *src, int canwait)

```
....  
2757.          PKTOPT_EXTHDRCPY(ip6po_rthdr); /* not copy the cached route  
*/
```

Use of Obsolete Functions\Path 27:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1511>

Status New

Method ip6_setpktopt in freebsd-src-2/ip6_output.c, at line 2870, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

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

File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	2986	2986
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....  
2986.                bcopy(pktinfo, opt->ip6po_pktinfo, sizeof(*pktinfo));
```

Use of Obsolete Functions\Path 28:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1512>

Status New

Method ip6_setpktopt in freebsd-src-2/ip6_output.c, at line 2870, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	3072	3072
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....  
3072.                bcopy(buf, opt->ip6po_nexthop, *buf);
```

Use of Obsolete Functions\Path 29:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1513>

Status New

Method ip6_setpktopt in freebsd-src-2/ip6_output.c, at line 2870, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	3110	3110
Object	bcopy	bcopy

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....  
3110.                   bcopy(hbh, opt->ip6po_hbh, hbhlen);
```

Use of Obsolete Functions\Path 30:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1514>

Status New

Method ip6_setpktopt in frebsd-src-2/ip6_output.c, at line 2870, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	frebsd-src-2/ip6_output.c	frebsd-src-2/ip6_output.c
Line	3177	3177
Object	bcopy	bcopy

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....  
3177.                   bcopy(dest, *newdest, destlen);
```

Use of Obsolete Functions\Path 31:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1515>

Status New

Method ip6_setpktopt in frebsd-src-2/ip6_output.c, at line 2870, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	frebsd-src-2/ip6_output.c	frebsd-src-2/ip6_output.c
Line	3219	3219
Object	bcopy	bcopy

Code Snippet

File Name frebsd-src-2/ip6_output.c

Method ip6_setpktopt(int optname, u_char *buf, int len, struct ip6_pktopts *opt,

```
....
3219.          bcopy(rth, opt->ip6po_rthdr, rthlen);
```

Use of Obsolete Functions\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1516
Status	New

Method ip6_splthdr in freebsd-src-2/ip6_output.c, at line 3315, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/ip6_output.c	freebsd-src-2/ip6_output.c
Line	3334	3334
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/ip6_output.c
Method ip6_splthdr(struct mbuf *m, struct ip6_exthdrs *exthdrs)

```
....
3334.          bcopy((caddr_t)ip6, mtod(m, caddr_t), sizeof(*ip6));
```

Use of Obsolete Functions\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1517
Status	New

Method get_data in freebsd-src-2/krb5_mech.c, at line 158, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	167	167
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/krb5_mech.c
Method get_data(const uint8_t **pp, size_t *lenp, struct krb5_data *dp)

```
....
167.          bcopy(*pp, dp->kd_data, sz);
```

Use of Obsolete Functions\Path 34:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1518
Status	New

Method krb5_make_token in freebsd-src-2/krb5_mech.c, at line 557, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	614	614
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/krb5_mech.c

Method krb5_make_token(char tok_id[2], size_t hlen, size_t len, struct mbuf **mp)

```
....  
614.         bcopy(oid->elements, p, oid->length);
```

Use of Obsolete Functions\Path 35:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1519
Status	New

Method krb5_get_mic_old in freebsd-src-2/krb5_mech.c, at line 860, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	898	898
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/krb5_mech.c

Method krb5_get_mic_old(struct krb5_context *kc, struct mbuf *m,

```
....  
898.         bcopy(tm->m_data, p + 8, cklen);
```

Use of Obsolete Functions\Path 36:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1519

Status	88&pathid=1520 New
--------	---

Method `krb5_get_mic_old` in `freebsd-src-2/krb5_mech.c`, at line 860, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/krb5_mech.c</code>	<code>freebsd-src-2/krb5_mech.c</code>
Line	933	933
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/krb5_mech.c`

Method `krb5_get_mic_old(struct krb5_context *kc, struct mbuf *m,`

```
....
933.         bcopy(p + 8, buf, 8);
```

Use of Obsolete Functions\Path 37:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1521
Status	New

Method `krb5_verify_mic_old` in `freebsd-src-2/krb5_mech.c`, at line 1043, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/krb5_mech.c</code>	<code>freebsd-src-2/krb5_mech.c</code>
Line	1109	1109
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/krb5_mech.c`

Method `krb5_verify_mic_old(struct krb5_context *kc, struct mbuf *m, struct mbuf *mic,`

```
....
1109.         bcopy(p, tm->m_data, 8);
```

Use of Obsolete Functions\Path 38:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1522
Status	New

Method `krb5_wrap_old` in `freebsd-src-2/krb5_mech.c`, at line 1251, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1336	1336
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/krb5_mech.c

Method krb5_wrap_old(struct krb5_context *kc, int conf_req_flag,

```
....  
1336.          bcopy(cm->m_data, p + 8, cklen);
```

Use of Obsolete Functions\Path 39:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1523>

Status New

Method krb5_wrap_new in freebsd-src-2/krb5_mech.c, at line 1399, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1529	1529
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/krb5_mech.c

Method krb5_wrap_new(struct krb5_context *kc, int conf_req_flag,

```
....  
1529.          bcopy(p, tm->m_data, 16);
```

Use of Obsolete Functions\Path 40:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1524>

Status New

Method krb5_unwrap_new in freebsd-src-2/krb5_mech.c, at line 1777, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1867	1867

Object	bcopy	bcopy
--------	-------	-------

Code Snippet

File Name freebsd-src-2/krb5_mech.c

Method krb5_unwrap_new(struct krb5_context *kc, struct mbuf **mp, int *conf_state)

```
....  
1867.                                   bcopy(m->m_data, buf, RRC);
```

Use of Obsolete Functions\Path 41:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1525>

Status New

Method krb5_unwrap_new in freebsd-src-2/krb5_mech.c, at line 1777, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1868	1868
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/krb5_mech.c

Method krb5_unwrap_new(struct krb5_context *kc, struct mbuf **mp, int *conf_state)

```
....  
1868.                                   bcopy(m->m_data + RRC, m->m_data, rlen - RRC);
```

Use of Obsolete Functions\Path 42:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1526>

Status New

Method krb5_unwrap_new in freebsd-src-2/krb5_mech.c, at line 1777, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1869	1869
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/krb5_mech.c

Method krb5_unwrap_new(struct krb5_context *kc, struct mbuf **mp, int *conf_state)

```
....  
1869.                bcopy(buf, m->m_data + rlen - RRC, RRC);
```

Use of Obsolete Functions\Path 43:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1527
Status	New

Method krb5_unwrap_new in freebsd-src-2/krb5_mech.c, at line 1777, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/krb5_mech.c	freebsd-src-2/krb5_mech.c
Line	1955	1955
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/krb5_mech.c
Method krb5_unwrap_new(struct krb5_context *kc, struct mbuf **mp, int *conf_state)

```
....  
1955.                bcopy(cm->m_data, buf, cklen);
```

Use of Obsolete Functions\Path 44:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1528
Status	New

Method vga_probe_unit in freebsd-src-2/vga.c, at line 76, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/vga.c	freebsd-src-2/vga.c
Line	88	88
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/vga.c
Method vga_probe_unit(int unit, video_adapter_t *buf, int flags)

```
....  
88.    bcopy(adp, buf, sizeof(*buf));
```

Use of Obsolete Functions\Path 45:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1529
Status	New

Method `update_adapter_info` in `freebsd-src-2/vga.c`, at line 804, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/vga.c</code>	<code>freebsd-src-2/vga.c</code>
Line	844	844
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/vga.c`
 Method `update_adapter_info(video_adapter_t *adp, video_info_t *info)`

```
....
844.      bcopy(info, &adp->va_info, sizeof(adp->va_info));
```

Use of Obsolete Functions\Path 46:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1530
Status	New

Method `vga_set_mode` in `freebsd-src-2/vga.c`, at line 1531, calls an obsolete API, `bcopy`. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	<code>freebsd-src-2/vga.c</code>	<code>freebsd-src-2/vga.c</code>
Line	1549	1549
Object	<code>bcopy</code>	<code>bcopy</code>

Code Snippet

File Name `freebsd-src-2/vga.c`
 Method `vga_set_mode(video_adapter_t *adp, int mode)`

```
....
1549.      bcopy(get_mode_param(mode), params.regs,
sizeof(params.regs));
```

Use of Obsolete Functions\Path 47:

Severity	Low
Result State	To Verify

Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1531
Status	New

Method vnic_dev_discover_res in freebsd-src-2/vnic_dev.c, at line 36, calls an obsolete API, bcopy. This has been deprecated, and should not be used in a modern codebase.

	Source	Destination
File	freebsd-src-2/vnic_dev.c	freebsd-src-2/vnic_dev.c
Line	107	107
Object	bcopy	bcopy

Code Snippet

File Name freebsd-src-2/vnic_dev.c

Method static int vnic_dev_discover_res(struct vnic_dev *vdev,

```
....
107.          bcopy(&softc->mem, &vdev->res[type].bar, sizeof(softc-
>mem));
```

Exposure of System Data to Unauthorized Control Sphere

Query Path:

CPP\Cx\CPP Low Visibility\Exposure of System Data to Unauthorized Control Sphere Version:1

Categories

FISMA 2014: Configuration Management

NIST SP 800-53: AC-3 Access Enforcement (P1)

Description

Exposure of System Data to Unauthorized Control Sphere\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1119
Status	New

The system data read by ext4_new_blocks in the file freebsd-src-2/ext2_extents.c at line 1369 is potentially exposed by ext4_new_blocks found in freebsd-src-2/ext2_extents.c at line 1369.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1370	1370
Object	perror	perror

Code Snippet

File Name freebsd-src-2/ext2_extents.c

Method ext4_new_blocks(struct inode *ip, daddr_t lbn, e4fs_daddr_t pref,

```
....
1370.      struct ucred *cred, unsigned long *count, int *perror)
```

Exposure of System Data to Unauthorized Control Sphere\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1120
Status	New

The system data read by ext4_new_blocks in the file freebsd-src-2/ext2_extents.c at line 1369 is potentially exposed by ext4_new_blocks found in freebsd-src-2/ext2_extents.c at line 1369.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1383	1383
Object	perror	perror

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_new_blocks(struct inode *ip, daddr_t lbn, e4fs_daddr_t pref,

```
....
1383.      *perror = ext2_alloc(ip, lbn, pref, (int)fs->e2fs_bsize,
cred, &newblk);
```

Exposure of System Data to Unauthorized Control Sphere\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1121
Status	New

The system data read by ext4_new_blocks in the file freebsd-src-2/ext2_extents.c at line 1369 is potentially exposed by ext4_new_blocks found in freebsd-src-2/ext2_extents.c at line 1369.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	1384	1384
Object	perror	perror

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_new_blocks(struct inode *ip, daddr_t lbn, e4fs_daddr_t pref,

```
.....  
1384.          if (*perror)
```

Exposure of System Data to Unauthorized Control Sphere\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1122
Status	New

The system data read by main in the file freebsd-src-2/http-server.c at line 330 is potentially exposed by main found in freebsd-src-2/http-server.c at line 330.

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	389	389
Object	perror	perror

Code Snippet

File Name freebsd-src-2/http-server.c
Method main(int argc, char **argv)

```
.....  
389.          perror("getsockname() failed");
```

Exposure of System Data to Unauthorized Control Sphere\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1123
Status	New

The system data read by send_document_cb in the file freebsd-src-2/http-server.c at line 159 is potentially exposed by send_document_cb found in freebsd-src-2/http-server.c at line 159.

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	204	204
Object	perror	perror

Code Snippet

File Name freebsd-src-2/http-server.c
Method send_document_cb(struct evhttp_request *req, void *arg)

```
.....  
204.                perror("malloc");
```

Exposure of System Data to Unauthorized Control Sphere\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1124
Status	New

The system data read by send_document_cb in the file freebsd-src-2/http-server.c at line 159 is potentially exposed by send_document_cb found in freebsd-src-2/http-server.c at line 159.

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	291	291
Object	perror	perror

Code Snippet

File Name freebsd-src-2/http-server.c
Method send_document_cb(struct evhttp_request *req, void *arg)

```
.....  
291.                perror("open");
```

Exposure of System Data to Unauthorized Control Sphere\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1125
Status	New

The system data read by send_document_cb in the file freebsd-src-2/http-server.c at line 159 is potentially exposed by send_document_cb found in freebsd-src-2/http-server.c at line 159.

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	298	298
Object	perror	perror

Code Snippet

File Name freebsd-src-2/http-server.c
Method send_document_cb(struct evhttp_request *req, void *arg)

```
.....  
298.                perror("fstat");
```

Exposure of System Data to Unauthorized Control Sphere\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1126
Status	New

The system data read by `dostats_dead` in the file `freebsd-src-2/ipnat.c` at line 331 is potentially exposed by `dostats_dead` found in `freebsd-src-2/ipnat.c` at line 331.

	Source	Destination
File	<code>freebsd-src-2/ipnat.c</code>	<code>freebsd-src-2/ipnat.c</code>
Line	342	342
Object	<code>perror</code>	<code>perror</code>

Code Snippet

File Name `freebsd-src-2/ipnat.c`
Method `dostats_dead(natstat_t *nsp, int opts, int *filter)`

```
.....  
342.                perror("kmemcpy");
```

Exposure of System Data to Unauthorized Control Sphere\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1127
Status	New

The system data read by `showhostmap_dead` in the file `freebsd-src-2/ipnat.c` at line 613 is potentially exposed by `showhostmap_dead` found in `freebsd-src-2/ipnat.c` at line 613.

	Source	Destination
File	<code>freebsd-src-2/ipnat.c</code>	<code>freebsd-src-2/ipnat.c</code>
Line	624	624
Object	<code>perror</code>	<code>perror</code>

Code Snippet

File Name `freebsd-src-2/ipnat.c`
Method `showhostmap_dead(natstat_t *nsp)`

```
.....
624.                perror("kmemcpy (maptable)");
```

Exposure of System Data to Unauthorized Control Sphere\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1128
Status	New

The system data read by showhostmap_dead in the file freebsd-src-2/ipnat.c at line 613 is potentially exposed by showhostmap_dead found in freebsd-src-2/ipnat.c at line 613.

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	633	633
Object	perror	perror

Code Snippet

File Name freebsd-src-2/ipnat.c
Method showhostmap_dead(natstat_t *nsp)

```
.....
633.                perror("kmemcpy (hostmap)");
```

Exposure of System Data to Unauthorized Control Sphere\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1129
Status	New

The system data read by do_local_cmd in the file freebsd-src-2/scp.c at line 231 is potentially exposed by do_local_cmd found in freebsd-src-2/scp.c at line 231.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	251	251
Object	perror	perror

Code Snippet

File Name freebsd-src-2/scp.c
Method do_local_cmd(arglist *a)

```
....  
251.                perror(a->list[0]);
```

Exposure of System Data to Unauthorized Control Sphere\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1130
Status	New

The system data read by do_cmd in the file freebsd-src-2/scp.c at line 279 is potentially exposed by do_cmd found in freebsd-src-2/scp.c at line 279.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	352	352
Object	perror	perror

Code Snippet

File Name freebsd-src-2/scp.c
Method do_cmd(char *program, char *host, char *remuser, int port, int subsystem,

```
....  
352.                perror(program);
```

Exposure of System Data to Unauthorized Control Sphere\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1131
Status	New

The system data read by do_cmd2 in the file freebsd-src-2/scp.c at line 379 is potentially exposed by do_cmd2 found in freebsd-src-2/scp.c at line 379.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	398	398
Object	perror	perror

Code Snippet

File Name freebsd-src-2/scp.c
Method do_cmd2(char *host, char *remuser, int port, char *cmd,

```
.....  
398.                perror("dup2");
```

Exposure of System Data to Unauthorized Control Sphere\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1132
Status	New

The system data read by do_cmd2 in the file freebsd-src-2/scp.c at line 379 is potentially exposed by do_cmd2 found in freebsd-src-2/scp.c at line 379.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	400	400
Object	perror	perror

Code Snippet

File Name freebsd-src-2/scp.c
Method do_cmd2(char *host, char *remuser, int port, char *cmd,

```
.....  
400.                perror("dup2");
```

Exposure of System Data to Unauthorized Control Sphere\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1133
Status	New

The system data read by do_cmd2 in the file freebsd-src-2/scp.c at line 379 is potentially exposed by do_cmd2 found in freebsd-src-2/scp.c at line 379.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	417	417
Object	perror	perror

Code Snippet

File Name freebsd-src-2/scp.c
Method do_cmd2(char *host, char *remuser, int port, char *cmd,


```
....  
417.                perror (ssh_program) ;
```

Exposure of System Data to Unauthorized Control Sphere\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1134
Status	New

The system data read by main in the file freebsd-src-2/scp.c at line 470 is potentially exposed by main found in freebsd-src-2/scp.c at line 470.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	660	660
Object	perror	perror

Code Snippet

File Name freebsd-src-2/scp.c
Method main(int argc, char **argv)

```
....  
660.                perror ("pledge") ;
```

Exposure of System Data to Unauthorized Control Sphere\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1135
Status	New

The system data read by do_exec_no_pty in the file freebsd-src-2/session.c at line 388 is potentially exposed by do_exec_no_pty found in freebsd-src-2/session.c at line 388.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	472	472
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_exec_no_pty(struct ssh *ssh, Session *s, const char *command)

```
.....
472.                perror("dup2 stdin");
```

Exposure of System Data to Unauthorized Control Sphere\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1136
Status	New

The system data read by do_exec_no_pty in the file freebsd-src-2/session.c at line 388 is potentially exposed by do_exec_no_pty found in freebsd-src-2/session.c at line 388.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	478	478
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_exec_no_pty(struct ssh *ssh, Session *s, const char *command)

```
.....
478.                perror("dup2 stdout");
```

Exposure of System Data to Unauthorized Control Sphere\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1137
Status	New

The system data read by do_exec_no_pty in the file freebsd-src-2/session.c at line 388 is potentially exposed by do_exec_no_pty found in freebsd-src-2/session.c at line 388.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	484	484
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_exec_no_pty(struct ssh *ssh, Session *s, const char *command)

```
.....
484.                perror("dup2 stderr");
```

Exposure of System Data to Unauthorized Control Sphere\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1138
Status	New

The system data read by do_setusercontext in the file freebsd-src-2/session.c at line 1376 is potentially exposed by do_setusercontext found in freebsd-src-2/session.c at line 1376.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1386	1386
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_setusercontext(struct passwd *pw)

```
.....
1386.                perror("unable to set user context");
```

Exposure of System Data to Unauthorized Control Sphere\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1139
Status	New

The system data read by do_setusercontext in the file freebsd-src-2/session.c at line 1376 is potentially exposed by do_setusercontext found in freebsd-src-2/session.c at line 1376.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1425	1425
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_setusercontext(struct passwd *pw)

```
.....  
1425.                perror("unable to set user context (setuser)");
```

Exposure of System Data to Unauthorized Control Sphere\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1140
Status	New

The system data read by do_pwchange in the file freebsd-src-2/session.c at line 1459 is potentially exposed by do_pwchange found in freebsd-src-2/session.c at line 1459.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1475	1475
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_pwchange(Session *s)

```
.....  
1475.                perror("passwd");
```

Exposure of System Data to Unauthorized Control Sphere\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1141
Status	New

The system data read by do_child in the file freebsd-src-2/session.c at line 1532 is potentially exposed by do_child found in freebsd-src-2/session.c at line 1532.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1710	1710
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_child(struct ssh *ssh, Session *s, const char *command)

```
....  
1710.                perror(shell);
```

Exposure of System Data to Unauthorized Control Sphere\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1142
Status	New

The system data read by do_child in the file freebsd-src-2/session.c at line 1532 is potentially exposed by do_child found in freebsd-src-2/session.c at line 1532.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1720	1720
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_child(struct ssh *ssh, Session *s, const char *command)

```
....  
1720.                perror(shell);
```

Exposure of System Data to Unauthorized Control Sphere\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1143
Status	New

The system data read by do_child in the file freebsd-src-2/session.c at line 1532 is potentially exposed by do_child found in freebsd-src-2/session.c at line 1532.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1732	1732
Object	perror	perror

Code Snippet

File Name freebsd-src-2/session.c
Method do_child(struct ssh *ssh, Session *s, const char *command)

```
.....
1732.          perror(shell);
```

Exposure of System Data to Unauthorized Control Sphere\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1144
Status	New

The system data read by bdg_ctl in the file freebsd-src-2/valectl.c at line 204 is potentially exposed by bdg_ctl found in freebsd-src-2/valectl.c at line 204.

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	220	220
Object	perror	perror

Code Snippet

File Name freebsd-src-2/valectl.c
Method bdg_ctl(struct args *a)

```
.....
220.          perror("/dev/netmap");
```

Exposure of System Data to Unauthorized Control Sphere\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1145
Status	New

The system data read by main in the file freebsd-src-2/ipnat.c at line 92 is potentially exposed by main found in freebsd-src-2/ipnat.c at line 92.

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	185	184
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/ipnat.c
Method main(int argc, char *argv[])

```

.....
185.                                STRERROR(errno));
.....
184.                                (void) fprintf(stderr, "%s: open: %s\n",
IPNAT_NAME,

```

Exposure of System Data to Unauthorized Control Sphere\Path 28:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1146
Status	New

The system data read by do_child in the file freebsd-src-2/session.c at line 1532 is potentially exposed by do_child found in freebsd-src-2/session.c at line 1532.

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1650	1648
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/session.c
Method do_child(struct ssh *ssh, Session *s, const char *command)

```

.....
1650.                                strerror(errno));
.....
1648.                                fprintf(stderr, "Could not chdir to home "

```

Exposure of System Data to Unauthorized Control Sphere\Path 29:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1147
Status	New

The system data read by list_all in the file freebsd-src-2/valectl.c at line 180 is potentially exposed by list_all found in freebsd-src-2/valectl.c at line 180.

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	193	193
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/valectl.c

Method list_all(int fd, struct nmreq_header *hdr)

```
....  
193.                                fprintf(stderr, "failed to list all: %s\n",  
strerror(errno));
```

Exposure of System Data to Unauthorized Control Sphere\Path 30:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1148
Status	New

The system data read by bdg_ctl in the file freebsd-src-2/valectl.c at line 204 is potentially exposed by bdg_ctl found in freebsd-src-2/valectl.c at line 204.

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	304	303
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/valectl.c
Method bdg_ctl(struct args *a)

```
....  
304.                                action, a->name, strerror(errno));  
....  
303.                                fprintf(stderr, "failed to %s %s: %s\n",
```

Exposure of System Data to Unauthorized Control Sphere\Path 31:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1149
Status	New

The system data read by wlan_ioctl_init in the file freebsd-src-2/wlan_sys.c at line 96 is potentially exposed by wlan_ioctl_init found in freebsd-src-2/wlan_sys.c at line 96.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	99	99
Object	errno	strerror

Code Snippet

File Name freebsd-src-2/wlan_sys.c

Method wlan_ioctl_init(void)

```
....  
99.          syslog(LOG_ERR, "cannot open socket : %s", strerror(errno));
```

Exposure of System Data to Unauthorized Control Sphere\Path 32:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1150
Status	New

The system data read by wlan_get_local_addr in the file freebsd-src-2/wlan_sys.c at line 286 is potentially exposed by wlan_get_local_addr found in freebsd-src-2/wlan_sys.c at line 286.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	295	295
Object	errno	strerror

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_get_local_addr(struct wlan_iface *wif)

```
....  
295.          strerror(errno);
```

Exposure of System Data to Unauthorized Control Sphere\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1151
Status	New

The system data read by wlan_clone_create in the file freebsd-src-2/wlan_sys.c at line 718 is potentially exposed by wlan_clone_create found in freebsd-src-2/wlan_sys.c at line 718.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	783	783
Object	errno	strerror

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_clone_create(struct wlan_iface *wif)

```
.....  
783.                "failed: %s", strerror(errno));
```

Exposure of System Data to Unauthorized Control Sphere\Path 34:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1152
Status	New

The system data read by wlan_clone_destroy in the file freebsd-src-2/wlan_sys.c at line 791 is potentially exposed by wlan_clone_destroy found in freebsd-src-2/wlan_sys.c at line 791.

	Source	Destination
File	freebsd-src-2/wlan_sys.c	freebsd-src-2/wlan_sys.c
Line	803	803
Object	errno	strerror

Code Snippet

File Name freebsd-src-2/wlan_sys.c
Method wlan_clone_destroy(struct wlan_iface *wif)

```
.....  
803.                "failed: %s", strerror(errno));
```

Exposure of System Data to Unauthorized Control Sphere\Path 35:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1153
Status	New

The system data read by main in the file freebsd-src-2/zinject.c at line 737 is potentially exposed by main found in freebsd-src-2/zinject.c at line 737.

	Source	Destination
File	freebsd-src-2/zinject.c	freebsd-src-2/zinject.c
Line	765	765
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/zinject.c
Method main(int argc, char **argv)

```
....
765.                (void) fprintf(stderr, "%s\n",
libzfs_error_init(errno));
```

Exposure of System Data to Unauthorized Control Sphere\Path 36:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1154
Status	New

The system data read by iter_handlers in the file freebsd-src-2/zinject.c at line 336 is potentially exposed by iter_handlers found in freebsd-src-2/zinject.c at line 336.

	Source	Destination
File	freebsd-src-2/zinject.c	freebsd-src-2/zinject.c
Line	349	348
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/zinject.c
Method iter_handlers(int (*func)(int, const char *, zinject_record_t *, void *),

```
....
349.                strerror(errno));
....
348.                (void) fprintf(stderr, "Unable to list handlers:
%s\n",
```

Exposure of System Data to Unauthorized Control Sphere\Path 37:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1155
Status	New

The system data read by cancel_one_handler in the file freebsd-src-2/zinject.c at line 502 is potentially exposed by cancel_one_handler found in freebsd-src-2/zinject.c at line 502.

	Source	Destination
File	freebsd-src-2/zinject.c	freebsd-src-2/zinject.c
Line	512	511
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/zinject.c
Method cancel_one_handler(int id, const char *pool, zinject_record_t *record,

```
.....
512.                id, strerror(errno));
.....
511.                (void) fprintf(stderr, "failed to remove handler %d:
%s\n",
```

Exposure of System Data to Unauthorized Control Sphere\Path 38:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1156
Status	New

The system data read by cancel_handler in the file freebsd-src-2/zinject.c at line 537 is potentially exposed by cancel_handler found in freebsd-src-2/zinject.c at line 537.

	Source	Destination
File	freebsd-src-2/zinject.c	freebsd-src-2/zinject.c
Line	545	544
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/zinject.c
Method cancel_handler(int id)

```
.....
545.                id, strerror(errno));
.....
544.                (void) fprintf(stderr, "failed to remove handler %d:
%s\n",
```

Exposure of System Data to Unauthorized Control Sphere\Path 39:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1157
Status	New

The system data read by register_handler in the file freebsd-src-2/zinject.c at line 558 is potentially exposed by register_handler found in freebsd-src-2/zinject.c at line 558.

	Source	Destination
File	freebsd-src-2/zinject.c	freebsd-src-2/zinject.c
Line	570	568
Object	errno	fprintf

Code Snippet

File Name freebsd-src-2/zinject.c
Method register_handler(const char *pool, int flags, zinject_record_t *record,

```
....
570.                strerror(errno));
....
568.                (void) fprintf(stderr, "failed to add handler: %s\n",
```

Incorrect Permission Assignment For Critical Resources

Query Path:

CPP\Cx\CPP Low Visibility\Incorrect Permission Assignment For Critical Resources Version:1

Categories

FISMA 2014: Access Control

NIST SP 800-53: AC-3 Access Enforcement (P1)

OWASP Top 10 2017: A2-Broken Authentication

Description

Incorrect Permission Assignment For Critical Resources\Path 1:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1082>
Status New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1836	1836
Object	chmod	chmod

Code Snippet

File Name freebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
....
1836.                (void) chmod(np, mode);
```

Incorrect Permission Assignment For Critical Resources\Path 2:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1083>
Status New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1850	1850


```
.....
149.         mode_t mode = umask(0);
```

Incorrect Permission Assignment For Critical Resources\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1086
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	150	150
Object	_umask	_umask

Code Snippet

File Name freebsd-src-2/test_main.c
Method mode_t umasked(mode_t expected_mode)

```
.....
150.         umask(mode);
```

Incorrect Permission Assignment For Critical Resources\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1087
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	2065	2065
Object	_umask	_umask

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_umask(const char *file, int line, int mask)

```
.....
2065.         umask(mask);
```

Incorrect Permission Assignment For Critical Resources\Path 7:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1088
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3566	3566
Object	_umask	_umask

Code Snippet

File Name freebsd-src-2/test_main.c
Method test_run(int i, const char *tmpdir)

```
....  
3566.      umask(oldumask = umask(0));
```

Incorrect Permission Assignment For Critical Resources\Path 8:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1089
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3566	3566
Object	_umask	_umask

Code Snippet

File Name freebsd-src-2/test_main.c
Method test_run(int i, const char *tmpdir)

```
....  
3566.      umask(oldumask = umask(0));
```

Incorrect Permission Assignment For Critical Resources\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1090
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3576	3576

Object	_umask	_umask
--------	--------	--------

Code Snippet

File Name frebsd-src-2/test_main.c
Method test_run(int i, const char *tmpdir)

```
....  
3576.           umask(oldumask);
```

Incorrect Permission Assignment For Critical Resources\Path 10:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1091>
Status New

	Source	Destination
File	frebsd-src-2/cut.c	frebsd-src-2/cut.c
Line	149	149
Object	fp	fp

Code Snippet

File Name frebsd-src-2/cut.c
Method main(int argc, char *argv[])

```
....  
149.                           if (!(fp = fopen(*argv, "r"))) {
```

Incorrect Permission Assignment For Critical Resources\Path 11:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1092>
Status New

	Source	Destination
File	frebsd-src-2/diff.c	frebsd-src-2/diff.c
Line	497	497
Object	fp	fp

Code Snippet

File Name frebsd-src-2/diff.c
Method read_excludes_file(char *file)

```
.....
497.         else if ((fp = fopen(file, "r")) == NULL)
```

Incorrect Permission Assignment For Critical Resources\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1093
Status	New

	Source	Destination
File	freebsd-src-2/gethostid.c	freebsd-src-2/gethostid.c
Line	46	46
Object	f	f

Code Snippet

File Name freebsd-src-2/gethostid.c
Method get_spl_hostid(void)

```
.....
46.     f = fopen("/proc/sys/kernel/spl/hostid", "re");
```

Incorrect Permission Assignment For Critical Resources\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1094
Status	New

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	132	132
Object	fp	fp

Code Snippet

File Name freebsd-src-2/maketab.c
Method int main(int argc, char *argv[])

```
.....
132.         if ((fp = fopen(argv[1], "r")) == NULL) {
```

Incorrect Permission Assignment For Critical Resources\Path 14:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1095
Status	New

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	797	797
Object	f	f

Code Snippet

File Name freebsd-src-2/session.c

Method do_motd(void)

```
....  
797.             f = fopen(login_getcapstr(lc, "welcome", "/etc/motd",
```

Incorrect Permission Assignment For Critical Resources\Path 15:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1096
Status	New

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	852	852
Object	f	f

Code Snippet

File Name freebsd-src-2/session.c

Method read_environment_file(char ***env, u_int *envsize,

```
....  
852.             f = fopen(filename, "r");
```

Incorrect Permission Assignment For Critical Resources\Path 16:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1097
Status	New

	Source	Destination
File	freebsd-src-2/session.c	freebsd-src-2/session.c
Line	1312	1312

Object	f	f
--------	---	---

Code Snippet

File Name frebsd-src-2/session.c
Method do_nologin(struct passwd *pw)

```
....
1312.          if ((f = fopen(n1, "r")) != NULL) {
```

Incorrect Permission Assignment For Critical Resources\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1098
Status	New

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	986	986
Object	f	f

Code Snippet

File Name frebsd-src-2/test_main.c
Method assertion_empty_file(const char *filename, int line, const char *f1)

```
....
986.          f = fopen(f1, "rb");
```

Incorrect Permission Assignment For Critical Resources\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1099
Status	New

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	1033	1033
Object	f1	f1

Code Snippet

File Name frebsd-src-2/test_main.c
Method assertion_equal_file(const char *filename, int line, const char *fn1, const char *fn2)

```
.....  
1033.          f1 = fopen(fn1, "rb");
```

Incorrect Permission Assignment For Critical Resources\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1100
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1034	1034
Object	f2	f2

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_equal_file(const char *filename, int line, const char *fn1, const char *fn2)

```
.....  
1034.          f2 = fopen(fn2, "rb");
```

Incorrect Permission Assignment For Critical Resources\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1101
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1108	1108
Object	f	f

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_file_contents(const char *filename, int line, const void *buff, int s, const char *fn)

```
.....  
1108.          f = fopen(fn, "rb");
```

Incorrect Permission Assignment For Critical Resources\Path 21:

Severity	Low
----------	-----

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1102
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1145	1145
Object	f	f

Code Snippet

File Name freebsd-src-2/test_main.c

Method assertion_text_file_contents(const char *filename, int line, const char *buff, const char *fn)

```
....  
1145.      f = fopen(fn, "r");
```

Incorrect Permission Assignment For Critical Resources\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1103
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1941	1941
Object	f	f

Code Snippet

File Name freebsd-src-2/test_main.c

Method assertion_make_file(const char *file, int line,

```
....  
1941.      f = fopen(path, "wb");
```

Incorrect Permission Assignment For Critical Resources\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1104
Status	New

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

File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3101	3101
Object	f	f

Code Snippet

File Name freebsd-src-2/test_main.c

Method slurpfile(size_t * sizep, const char *fmt, ...)

```
....  
3101.      f = fopen(filename, "rb");
```

Incorrect Permission Assignment For Critical Resources\Path 24:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1105>

Status New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3144	3144
Object	f	f

Code Snippet

File Name freebsd-src-2/test_main.c

Method dumpfile(const char *filename, void *data, size_t len)

```
....  
3144.      f = fopen(filename, "wb");
```

Incorrect Permission Assignment For Critical Resources\Path 25:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1106>

Status New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3166	3166
Object	in	in

Code Snippet

File Name freebsd-src-2/test_main.c

Method extract_reference_file(const char *name)

```
.....  
3166.         in = fopen(buff, "r");
```

Incorrect Permission Assignment For Critical Resources\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1107
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3181	3181
Object	out	out

Code Snippet

File Name freebsd-src-2/test_main.c
Method extract_reference_file(const char *name)

```
.....  
3181.         out = fopen(name, "wb");
```

Incorrect Permission Assignment For Critical Resources\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1108
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3225	3225
Object	in	in

Code Snippet

File Name freebsd-src-2/test_main.c
Method copy_reference_file(const char *name)

```
.....  
3225.         in = fopen(buff, "rb");
```

Incorrect Permission Assignment For Critical Resources\Path 28:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1109
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3232	3232
Object	out	out

Code Snippet

File Name freebsd-src-2/test_main.c
Method copy_reference_file(const char *name)

```
....  
3232.         out = fopen(name, "wb");
```

Incorrect Permission Assignment For Critical Resources\Path 29:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1110
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3552	3552
Object	logfile	logfile

Code Snippet

File Name freebsd-src-2/test_main.c
Method test_run(int i, const char *tmpdir)

```
....  
3552.         logfile = fopen(logfilename, "w");
```

Incorrect Permission Assignment For Critical Resources\Path 30:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1111
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1596	1596

Object	mkdir	mkdir
--------	-------	-------

Code Snippet

File Name frebsd-src-2/scp.c

Method sink_sftp(int argc, char *dst, const char *src, struct sftp_conn *conn)

```
....  
1596.                   if (mkdir(dst, 0777) != 0) {
```

Incorrect Permission Assignment For Critical Resources\Path 31:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1112>

Status New

	Source	Destination
File	frebsd-src-2/scp.c	frebsd-src-2/scp.c
Line	1840	1840
Object	mkdir	mkdir

Code Snippet

File Name frebsd-src-2/scp.c

Method sink(int argc, char **argv, const char *src)

```
....  
1840.                   if (mkdir(np, mode | S_IRWXU) == -1)
```

Incorrect Permission Assignment For Critical Resources\Path 32:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1113>

Status New

	Source	Destination
File	frebsd-src-2/templates_test.cpp	frebsd-src-2/templates_test.cpp
Line	941	941
Object	mkdir	mkdir

Code Snippet

File Name frebsd-src-2/templates_test.cpp

Method ATF_TEST_CASE_BODY(instantiate__files__output_error)

```
....
941.      fs::mkdir(fs::path("dir"), 0444);
```

Incorrect Permission Assignment For Critical Resources\Path 33:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1114
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1916	1916
Object	_mkdir	_mkdir

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_make_dir(const char *file, int line, const char *dirname, int mode)

```
....
1916.      if (0 == _mkdir(dirname))
```

Incorrect Permission Assignment For Critical Resources\Path 34:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1115
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	330	330
Object	CreateFile	CreateFile

Code Snippet

File Name freebsd-src-2/test_main.c
Method my_GetFileInformationByName(const char *path, BY_HANDLE_FILE_INFORMATION *bhfi)

```
....
330.      h = CreateFile(path, FILE_READ_ATTRIBUTES, 0, NULL,
```

Incorrect Permission Assignment For Critical Resources\Path 35:

Severity	Low
Result State	To Verify

Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1116
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1435	1435
Object	CreateFile	CreateFile

Code Snippet

File Name freebsd-src-2/test_main.c

Method assertion_file_time(const char *file, int line,

```
....  
1435.      h = CreateFile(pathname, FILE_READ_ATTRIBUTES, 0, NULL,
```

Incorrect Permission Assignment For Critical Resources\Path 36:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1117
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1767	1767
Object	CreateFileA	CreateFileA

Code Snippet

File Name freebsd-src-2/test_main.c

Method is_symlink(const char *file, int line,

```
....  
1767.      h = CreateFileA(pn, 0, FILE_SHARE_READ, NULL, OPEN_EXISTING,
```

Incorrect Permission Assignment For Critical Resources\Path 37:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1118
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c

Line	2085	2085
Object	CreateFileA	CreateFileA

Code Snippet

File Name frebsd-src-2/test_main.c

Method assertion_utimes(const char *file, int line,

```
....
2085.             h = CreateFileA(pathname, GENERIC_READ | GENERIC_WRITE,
```

TOCTOU

Query Path:

CPP\Cx\CPP Low Visibility\TOCTOU Version:1

Description

TOCTOU\Path 1:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1573>

Status New

The main method in frebsd-src-2/cut.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/cut.c	frebsd-src-2/cut.c
Line	149	149
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/cut.c

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

```
....
149.             if (!(fp = fopen(*argv, "r"))) {
```

TOCTOU\Path 2:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1574>

Status New

The read_excludes_file method in frebsd-src-2/diff.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

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

File	freebsd-src-2/diff.c	freebsd-src-2/diff.c
Line	497	497
Object	fopen	fopen

Code Snippet

File Name freebsd-src-2/diff.c
Method read_excludes_file(char *file)

```
....
497.         else if ((fp = fopen(file, "r")) == NULL)
```

TOCTOU\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1575
Status	New

The get_spl_hostid method in freebsd-src-2/gethostid.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/gethostid.c	freebsd-src-2/gethostid.c
Line	46	46
Object	fopen	fopen

Code Snippet

File Name freebsd-src-2/gethostid.c
Method get_spl_hostid(void)

```
....
46.     f = fopen("/proc/sys/kernel/spl/hostid", "re");
```

TOCTOU\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1576
Status	New

The main method in freebsd-src-2/maketab.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/maketab.c	freebsd-src-2/maketab.c
Line	132	132

Object	fopen	fopen
--------	-------	-------

Code Snippet

File Name frebsd-src-2/maketab.c

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

```
....
132.             if ((fp = fopen(argv[1], "r")) == NULL) {
```

TOCTOU\Path 5:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1577>

Status New

The do_motd method in frebsd-src-2/session.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/session.c	frebsd-src-2/session.c
Line	797	797
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/session.c

Method do_motd(void)

```
....
797.             f = fopen(login_getcapstr(lc, "welcome", "/etc/motd",
```

TOCTOU\Path 6:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1578>

Status New

The read_environment_file method in frebsd-src-2/session.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/session.c	frebsd-src-2/session.c
Line	852	852
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/session.c
Method read_environment_file(char ***env, u_int *envsize,

```
....  
852.            f = fopen(filename, "r");
```

TOCTOU\Path 7:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1579>
Status New

The do_nologin method in frebsd-src-2/session.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/session.c	frebsd-src-2/session.c
Line	1312	1312
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/session.c
Method do_nologin(struct passwd *pw)

```
....  
1312.           if ((f = fopen(nl, "r")) != NULL) {
```

TOCTOU\Path 8:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1580>
Status New

The assertion_empty_file method in frebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	986	986
Object	fopen	fopen

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_empty_file(const char *filename, int line, const char *f1)

```
....  
986.          f = fopen(f1, "rb");
```

TOCTOU\Path 9:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1581>
Status New

The assertion_equal_file method in freebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1033	1033
Object	fopen	fopen

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_equal_file(const char *filename, int line, const char *fn1, const char *fn2)

```
....  
1033.          f1 = fopen(fn1, "rb");
```

TOCTOU\Path 10:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1582>
Status New

The assertion_equal_file method in freebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1034	1034
Object	fopen	fopen

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_equal_file(const char *filename, int line, const char *fn1, const char *fn2)

```
....  
1034.          f2 = fopen(fn2, "rb");
```

TOCTOU\Path 11:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1583>
Status New

The assertion_file_contents method in freebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1108	1108
Object	fopen	fopen

Code Snippet

File Name freebsd-src-2/test_main.c
Method assertion_file_contents(const char *filename, int line, const void *buff, int s, const char *fn)

```
....  
1108.          f = fopen(fn, "rb");
```

TOCTOU\Path 12:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1584>
Status New

The assertion_text_file_contents method in freebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	1145	1145
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/test_main.c

Method assertion_text_file_contents(const char *filename, int line, const char *buff,
const char *fn)

```
....  
1145.           f = fopen(fn, "r");
```

TOCTOU\Path 13:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1585>

Status New

The assertion_make_file method in frebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	1941	1941
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/test_main.c

Method assertion_make_file(const char *file, int line,

```
....  
1941.           f = fopen(path, "wb");
```

TOCTOU\Path 14:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1586>

Status New

The slurpfile method in frebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	3101	3101
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/test_main.c
Method slurpfile(size_t * sizep, const char *fmt, ...)

```
....  
3101.           f = fopen(filename, "rb");
```

TOCTOU\Path 15:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1587>
Status New

The slurpfile method in frebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	3144	3144
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/test_main.c
Method dumpfile(const char *filename, void *data, size_t len)

```
....  
3144.           f = fopen(filename, "wb");
```

TOCTOU\Path 16:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1588>
Status New

The extract_reference_file method in frebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	3166	3166
Object	fopen	fopen

Code Snippet

File Name frebsd-src-2/test_main.c
Method extract_reference_file(const char *name)

```
.....  
3166.         in = fopen(buff, "r");
```

TOCTOU\Path 17:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1589
Status	New

The `extract_reference_file` method in `freebsd-src-2/test_main.c` file utilizes `fopen` that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3181	3181
Object	fopen	fopen

Code Snippet

File Name `freebsd-src-2/test_main.c`
Method `extract_reference_file(const char *name)`

```
.....  
3181.         out = fopen(name, "wb");
```

TOCTOU\Path 18:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1590
Status	New

The `copy_reference_file` method in `freebsd-src-2/test_main.c` file utilizes `fopen` that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3225	3225
Object	fopen	fopen

Code Snippet

File Name `freebsd-src-2/test_main.c`
Method `copy_reference_file(const char *name)`

```
.....
3225.         in = fopen(buff, "rb");
```

TOCTOU\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1591
Status	New

The copy_reference_file method in freebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3232	3232
Object	fopen	fopen

Code Snippet

File Name freebsd-src-2/test_main.c
Method copy_reference_file(const char *name)

```
.....
3232.         out = fopen(name, "wb");
```

TOCTOU\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1592
Status	New

The test_run method in freebsd-src-2/test_main.c file utilizes fopen that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3552	3552
Object	fopen	fopen

Code Snippet

File Name freebsd-src-2/test_main.c
Method test_run(int i, const char *tmpdir)

```
....  
3552.         logfile = fopen(logfilename, "w");
```

TOCTOU\Path 21:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1593
Status	New

The `get_system_hostid` method in `freebsd-src-2/gethostid.c` file utilizes `open` that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	<code>freebsd-src-2/gethostid.c</code>	<code>freebsd-src-2/gethostid.c</code>
Line	71	71
Object	<code>open</code>	<code>open</code>

Code Snippet

File Name `freebsd-src-2/gethostid.c`
Method `get_system_hostid(void)`

```
....  
71.         int fd = open("/etc/hostid", O_RDONLY | O_CLOEXEC);
```

TOCTOU\Path 22:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1594
Status	New

The main method in `freebsd-src-2/ipnat.c` file utilizes `open` that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	<code>freebsd-src-2/ipnat.c</code>	<code>freebsd-src-2/ipnat.c</code>
Line	182	182
Object	<code>open</code>	<code>open</code>

Code Snippet

File Name `freebsd-src-2/ipnat.c`
Method `main(int argc, char *argv[])`

```
.....
182.                if (((fd = open(IPNAT_NAME, mode)) == -1) &&
```

TOCTOU\Path 23:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1595
Status	New

The main method in freebsd-src-2/ipnat.c file utilizes open that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	183	183
Object	open	open

Code Snippet

File Name freebsd-src-2/ipnat.c
Method main(int argc, char *argv[])

```
.....
183.                ((fd = open(IPNAT_NAME, O_RDONLY)) == -1)) {
```

TOCTOU\Path 24:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1596
Status	New

The source method in freebsd-src-2/scp.c file utilizes open that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1395	1395
Object	open	open

Code Snippet

File Name freebsd-src-2/scp.c
Method source(int argc, char **argv)


```
.....
1395.                if ((fd = open(name, O_RDONLY|O_NONBLOCK)) == -1)
```

TOCTOU\Path 25:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1597
Status	New

The sink method in freebsd-src-2/scp.c file utilizes open that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	1856	1856
Object	open	open

Code Snippet

File Name freebsd-src-2/scp.c
Method sink(int argc, char **argv, const char *src)

```
.....
1856.                if ((ofd = open(np, O_WRONLY|O_CREAT, mode)) == -1) {
```

TOCTOU\Path 26:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1598
Status	New

The bdg_ctl method in freebsd-src-2/valectl.c file utilizes open that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	218	218
Object	open	open

Code Snippet

File Name freebsd-src-2/valectl.c
Method bdg_ctl(struct args *a)

```
.....
218.          fd = open("/dev/netmap", O_RDWR);
```

TOCTOU\Path 27:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1599
Status	New

The main method in freebsd-src-2/zinject.c file utilizes open that is accessed by other concurrent functionality in a way that is not thread-safe, which may result in a Race Condition over this resource.

	Source	Destination
File	freebsd-src-2/zinject.c	freebsd-src-2/zinject.c
Line	771	771
Object	open	open

Code Snippet

File Name freebsd-src-2/zinject.c
Method main(int argc, char **argv)

```
.....
771.          if ((zfs_fd = open(ZFS_DEV, O_RDWR)) < 0) {
```

Sizeof Pointer Argument

Query Path:
CPP\Cx\CPP Low Visibility\Sizeof Pointer Argument Version:0

Description

Sizeof Pointer Argument\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1533
Status	New

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3862	3862
Object	tests	sizeof

Code Snippet

File Name freebsd-src-2/test_main.c
Method main(int argc, char **argv)

```
.....
3862.          static const int limit = sizeof(tests) / sizeof(tests[0]);
```

Sizeof Pointer Argument\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1534
Status	New

	Source	Destination
File	freebsd-src-2/vt_vga.c	freebsd-src-2/vt_vga.c
Line	542	542
Object	planes	sizeof

Code Snippet

File Name freebsd-src-2/vt_vga.c
Method vga_bitblt_pixels_block_ncolors(struct vt_device *vd, const uint8_t *masks,

```
.....
542.          memset(planes, 0, sizeof(planes));
```

Sizeof Pointer Argument\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1535
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	978	978
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c
Method lm_will(unsigned char *cmd, int len)

```
.....
978.          if (NETROOM() > sizeof(str_lm)) {
```

Sizeof Pointer Argument\Path 4:

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

[BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1536](http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1536)

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	978	978
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_will(unsigned char *cmd, int len)

```
....  
978.          if (NETROOM() > sizeof(str_lm)) {
```

Sizeof Pointer Argument\Path 5:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1537>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1014	1014
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_do(unsigned char *cmd, int len)

```
....  
1014.         if (NETROOM() > sizeof(str_lm)) {
```

Sizeof Pointer Argument\Path 6:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1538>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1014	1014

Object	str_lm	sizeof
--------	--------	--------

Code Snippet

File Name frebsd-src-2/telnet.c
Method lm_do(unsigned char *cmd, int len)

```
....  
1014.           if (NETROOM() > sizeof(str_lm)) {
```

Sizeof Pointer Argument\Path 7:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1539>
Status New

	Source	Destination
File	frebsd-src-2/util-print.c	frebsd-src-2/util-print.c
Line	663	663
Object	bitmasks	sizeof

Code Snippet

File Name frebsd-src-2/util-print.c
Method mask62plen(const u_char *mask)

```
....  
663.           for (bits = 0; bits < (sizeof (bitmasks) / sizeof  
(bitmasks[0])); bits++) {
```

Sizeof Pointer Argument\Path 8:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1540>
Status New

	Source	Destination
File	frebsd-src-2/util-print.c	frebsd-src-2/util-print.c
Line	663	663
Object	bitmasks	sizeof

Code Snippet

File Name frebsd-src-2/util-print.c
Method mask62plen(const u_char *mask)

```
....  
663.             for (bits = 0; bits < (sizeof (bitmasks) / sizeof  
(bitmasks[0])); bits++) {
```

Sizeof Pointer Argument\Path 9:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1541
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	979	979
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c
Method lm_will(unsigned char *cmd, int len)

```
....  
979.             ring_supply_data(&netoring, str_lm, sizeof(str_lm));
```

Sizeof Pointer Argument\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1542
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	978	979
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c
Method lm_will(unsigned char *cmd, int len)

```
....  
978.             if (NETROOM() > sizeof(str_lm)) {  
979.                 ring_supply_data(&netoring, str_lm, sizeof(str_lm));
```

Sizeof Pointer Argument\Path 11:

Severity	Low
----------	-----

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1543
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	979	979
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_will(unsigned char *cmd, int len)

```
....  
979.          ring_supply_data(&netoring, str_lm, sizeof(str_lm));
```

Sizeof Pointer Argument\Path 12:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1544
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	978	979
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_will(unsigned char *cmd, int len)

```
....  
978.          if (NETROOM() > sizeof(str_lm)) {  
979.              ring_supply_data(&netoring, str_lm, sizeof(str_lm));
```

Sizeof Pointer Argument\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1545
Status	New

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

File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1015	1015
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_do(unsigned char *cmd, int len)

```
....  
1015.          ring_supply_data(&netoring, str_lm, sizeof(str_lm));
```

Sizeof Pointer Argument\Path 14:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1546>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1014	1015
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_do(unsigned char *cmd, int len)

```
....  
1014.          if (NETROOM() > sizeof(str_lm)) {  
1015.              ring_supply_data(&netoring, str_lm, sizeof(str_lm));
```

Sizeof Pointer Argument\Path 15:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1547>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1015	1015
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method `lm_do(unsigned char *cmd, int len)`

```
....  
1015.          ring_supply_data(&netoring, str_lm, sizeof(str_lm));
```

Sizeof Pointer Argument\Path 16:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1548>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1014	1015
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method `lm_do(unsigned char *cmd, int len)`

```
....  
1014.          if (NETROOM() > sizeof(str_lm)) {  
1015.              ring_supply_data(&netoring, str_lm, sizeof(str_lm));
```

Sizeof Pointer Argument\Path 17:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1549>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	980	980
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method `lm_will(unsigned char *cmd, int len)`

```
....  
980.          printsub('>', &str_lm[2], sizeof(str_lm)-2);
```

Sizeof Pointer Argument\Path 18:

Severity Low

Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1550
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	978	980
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_will(unsigned char *cmd, int len)

```
....  
978.          if (NETROOM() > sizeof(str_lm)) {  
....  
980.          printsub('>', &str_lm[2], sizeof(str_lm)-2);
```

Sizeof Pointer Argument\Path 19:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1551
Status	New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	980	980
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_will(unsigned char *cmd, int len)

```
....  
980.          printsub('>', &str_lm[2], sizeof(str_lm)-2);
```

Sizeof Pointer Argument\Path 20:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1552
Status	New

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

File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	978	980
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_will(unsigned char *cmd, int len)

```
....  
978.         if (NETROOM() > sizeof(str_lm)) {  
....  
980.         printsub('>', &str_lm[2], sizeof(str_lm)-2);
```

Sizeof Pointer Argument\Path 21:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1553>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1016	1016
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c

Method lm_do(unsigned char *cmd, int len)

```
....  
1016.         printsub('>', &str_lm[2], sizeof(str_lm)-2);
```

Sizeof Pointer Argument\Path 22:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1554>

Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1014	1016
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c
Method lm_do(unsigned char *cmd, int len)

```
....  
1014.         if (NETROOM() > sizeof(str_lm)) {  
....  
1016.             printsub('>', &str_lm[2], sizeof(str_lm)-2);
```

Sizeof Pointer Argument\Path 23:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1555>
Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1016	1016
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c
Method lm_do(unsigned char *cmd, int len)

```
....  
1016.             printsub('>', &str_lm[2], sizeof(str_lm)-2);
```

Sizeof Pointer Argument\Path 24:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1556>
Status New

	Source	Destination
File	freebsd-src-2/telnet.c	freebsd-src-2/telnet.c
Line	1014	1016
Object	str_lm	sizeof

Code Snippet

File Name freebsd-src-2/telnet.c
Method lm_do(unsigned char *cmd, int len)

```
....
1014.         if (NETROOM() > sizeof(str_lm)) {
....
1016.         printsub('>', &str_lm[2], sizeof(str_lm)-2);
```

Unchecked Array Index

Query Path:

CPP\Cx\CPP Low Visibility\Unchecked Array Index Version:1

Categories

NIST SP 800-53: SI-10 Information Input Validation (P1)

Description

Unchecked Array Index\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1557
Status	New

	Source	Destination
File	freebsd-src-2/bn_gf2m.c	freebsd-src-2/bn_gf2m.c
Line	373	373
Object	n	n

Code Snippet

File Name freebsd-src-2/bn_gf2m.c
Method int BN_GF2m_mod_arr(BIGNUM *r, const BIGNUM *a, const int p[])

```
....
373.         z[n] ^= (zz << d0);
```

Unchecked Array Index\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1558
Status	New

	Source	Destination
File	freebsd-src-2/bwirf.c	freebsd-src-2/bwirf.c
Line	1025	1025
Object	idx	idx

Code Snippet

File Name freebsd-src-2/bwirf.c

Method bwi_rf_calibval(struct bwi_mac *mac)

```
....  
1025.         calib = rf_calibvals[idx] << 1;
```

Unchecked Array Index\Path 3:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1559>

Status New

	Source	Destination
File	freebsd-src-2/http-server.c	freebsd-src-2/http-server.c
Line	237	237
Object	dirlen	dirlen

Code Snippet

File Name freebsd-src-2/http-server.c

Method send_document_cb(struct evhttp_request *req, void *arg)

```
....  
237.         pattern[dirlen] = '\\';
```

Unchecked Array Index\Path 4:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1560>

Status New

	Source	Destination
File	freebsd-src-2/qmi.c	freebsd-src-2/qmi.c
Line	341	341
Object	j	j

Code Snippet

File Name freebsd-src-2/qmi.c

Method static int ath10k_qmi_send_cal_report_req(struct ath10k_qmi *qmi)

```
....  
341.         req.meta_data[j] = qmi->cal_data[i].cal_id;
```

Unchecked Array Index\Path 5:

Severity Low

Result State To Verify

Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1561
Status	New

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	729	729
Object	rrset_id	rrset_id

Code Snippet

File Name freebsd-src-2/respip.c

Method respip_data_answer(enum respip_action action,

```
....  
729.          new_rep->rrsets[rrset_id] = rp;
```

Unchecked Array Index\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1562
Status	New

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	1076	1076
Object	id	id

Code Snippet

File Name freebsd-src-2/respip.c

Method respip_operate(struct module_qstate* qstate, enum module_ev event, int id,

```
....  
1076.          qstate->minfo[id] = rq;
```

Unchecked Array Index\Path 7:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1563
Status	New

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c

Line	1079	1079
Object	id	id

Code Snippet

File Name frebsd-src-2/respip.c

Method respip_operate(struct module_qstate* qstate, enum module_ev event, int id,

```
....  
1079.                                   qstate->ext_state[id] = module_finished;
```

Unchecked Array Index\Path 8:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1564>

Status New

	Source	Destination
File	frebsd-src-2/respip.c	frebsd-src-2/respip.c
Line	1083	1083
Object	id	id

Code Snippet

File Name frebsd-src-2/respip.c

Method respip_operate(struct module_qstate* qstate, enum module_ev event, int id,

```
....  
1083.                                   qstate->ext_state[id] = module_wait_module;
```

Unchecked Array Index\Path 9:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1565>

Status New

	Source	Destination
File	frebsd-src-2/respip.c	frebsd-src-2/respip.c
Line	1136	1136
Object	id	id

Code Snippet

File Name frebsd-src-2/respip.c

Method respip_operate(struct module_qstate* qstate, enum module_ev event, int id,


```
....  
1136.          qstate->ext_state[id] = next_state;
```

Unchecked Array Index\Path 10:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1566
Status	New

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	1138	1138
Object	id	id

Code Snippet

File Name freebsd-src-2/respip.c
Method respip_operate(struct module_qstate* qstate, enum module_ev event, int id,

```
....  
1138.          qstate->ext_state[id] = module_finished;
```

Unchecked Array Index\Path 11:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1567
Status	New

	Source	Destination
File	freebsd-src-2/respip.c	freebsd-src-2/respip.c
Line	1246	1246
Object	id	id

Code Snippet

File Name freebsd-src-2/respip.c
Method respip_clear(struct module_qstate* qstate, int id)

```
....  
1246.          qstate->minfo[id] = NULL;
```

Unchecked Array Index\Path 12:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1568
Status	New

	Source	Destination
File	freebsd-src-2/rt2860.c	freebsd-src-2/rt2860.c
Line	843	843
Object	wcid	wcid

Code Snippet

File Name freebsd-src-2/rt2860.c
Method rt2860_newassoc(struct ieee80211_node *ni, int isnew)

```
....  
843.          sc->wcid2ni[wcid] = ni;
```

Unchecked Array Index\Path 13:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1569
Status	New

	Source	Destination
File	freebsd-src-2/rt2860.c	freebsd-src-2/rt2860.c
Line	1673	1673
Object	cur	cur

Code Snippet

File Name freebsd-src-2/rt2860.c
Method rt2860_tx(struct rt2860_softc *sc, struct mbuf *m, struct ieee80211_node *ni)

```
....  
1673.      ring->data[ring->cur] = data;
```

Unchecked Array Index\Path 14:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1570
Status	New

	Source	Destination
File	freebsd-src-2/rt2860.c	freebsd-src-2/rt2860.c
Line	1916	1916

Object	cur	cur
--------	-----	-----

Code Snippet

File Name frebsd-src-2/rt2860.c

Method rt2860_tx_raw(struct rt2860_softc *sc, struct mbuf *m,

```
....  
1916.           ring->data[ring->cur] = data;
```

Unchecked Array Index\Path 15:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1571>

Status New

	Source	Destination
File	frebsd-src-2/scp.c	frebsd-src-2/scp.c
Line	863	863
Object	o	o

Code Snippet

File Name frebsd-src-2/scp.c

Method emit_expansion(const char *pattern, int brace_start, int brace_end,

```
....  
863.           cp[o] = '\\0';
```

Unchecked Array Index\Path 16:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1572>

Status New

	Source	Destination
File	frebsd-src-2/t_vnops.c	frebsd-src-2/t_vnops.c
Line	654	654
Object	len	len

Code Snippet

File Name frebsd-src-2/t_vnops.c

Method symlink_len(const atf_tc_t *tc, const char *mp, size_t len)

```
....  
654.         buf[len] = '\\0';
```

Inconsistent Implementations

Query Path:

CPP\Cx\CPP Low Visibility\Inconsistent Implementations Version:0

[Description](#)

Inconsistent Implementations\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=200
Status	New

	Source	Destination
File	freebsd-src-2/cut.c	freebsd-src-2/cut.c
Line	91	91
Object	getopt	getopt

Code Snippet

File Name freebsd-src-2/cut.c
Method main(int argc, char *argv[])

```
....  
91.     while ((ch = getopt(argc, argv, "b:c:d:f:snw")) != -1)
```

Inconsistent Implementations\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=201
Status	New

	Source	Destination
File	freebsd-src-2/ipnat.c	freebsd-src-2/ipnat.c
Line	110	110
Object	getopt	getopt

Code Snippet

File Name freebsd-src-2/ipnat.c
Method main(int argc, char *argv[])

```
....  
110.         while ((c = getopt(argc, argv, "CdFf:hlm:M:N:nO:prRsv")) !=  
-1)
```

Inconsistent Implementations\Path 3:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=202
Status	New

	Source	Destination
File	freebsd-src-2/scp.c	freebsd-src-2/scp.c
Line	508	508
Object	getopt	getopt

Code Snippet

File Name freebsd-src-2/scp.c
Method main(int argc, char **argv)

```
....  
508.         while ((ch = getopt(argc, argv,
```

Inconsistent Implementations\Path 4:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=203
Status	New

	Source	Destination
File	freebsd-src-2/valectl.c	freebsd-src-2/valectl.c
Line	375	375
Object	getopt	getopt

Code Snippet

File Name freebsd-src-2/valectl.c
Method main(int argc, char *argv[])

```
....  
375.         while ((ch = getopt(argc, argv, "d:a:h:g:l:n:r:C:p:P:m:v"))  
!= -1) {
```

Inconsistent Implementations\Path 5:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=204
Status	New

	Source	Destination
File	freebsd-src-2/zinject.c	freebsd-src-2/zinject.c
Line	792	792
Object	getopt	getopt

Code Snippet

File Name freebsd-src-2/zinject.c
Method main(int argc, char **argv)

```
....
792.         while ((c = getopt(argc, argv,
```

Inconsistent Implementations\Path 6:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=205
Status	New

	Source	Destination
File	freebsd-src-2/diff.c	freebsd-src-2/diff.c
Line	146	146
Object	getopt_long	getopt_long

Code Snippet

File Name freebsd-src-2/diff.c
Method main(int argc, char **argv)

```
....
146.         while ((ch = getopt_long(argc, argv, OPTIONS, longopts,
NULL)) != -1) {
```

Privacy Violation

Query Path:

CPP\Cx\CPP Low Visibility\Privacy Violation Version:1

Categories

OWASP Top 10 2013: A6-Sensitive Data Exposure
FISMA 2014: Identification And Authentication
NIST SP 800-53: SC-4 Information in Shared Resources (P1)
OWASP Top 10 2017: A3-Sensitive Data Exposure

Description

Privacy Violation\Path 1:

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

	BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1158
Status	New

Method get_refdir at line 3656 of freebsd-src-2/test_main.c sends user information outside the application. This may constitute a Privacy Violation.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3731	4160
Object	pwd	printf

Code Snippet

File Name freebsd-src-2/test_main.c
Method get_refdir(const char *d)

```
....
3731.         if (memcmp(pwd, "/usr/obj", 8) == 0) {
```

File Name freebsd-src-2/test_main.c
Method main(int argc, char **argv)

```
....
4160.         printf("Reference files will be read from: %s\n",
refdir);
```

Privacy Violation\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1159
Status	New

Method get_refdir at line 3656 of freebsd-src-2/test_main.c sends user information outside the application. This may constitute a Privacy Violation.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3698	4160
Object	pwd	printf

Code Snippet

File Name freebsd-src-2/test_main.c
Method get_refdir(const char *d)

```
....
3698.         pwd[strlen(pwd) - 1] = '\0';
```

File Name frebsd-src-2/test_main.c
Method main(int argc, char **argv)

```
....
4160.                printf("Reference files will be read from: %s\n",
refdir);
```

Privacy Violation\Path 3:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1160>
Status New

Method get_refdir at line 3656 of frebsd-src-2/test_main.c sends user information outside the application. This may constitute a Privacy Violation.

	Source	Destination
File	frebsd-src-2/test_main.c	frebsd-src-2/test_main.c
Line	3693	4160
Object	pwd	printf

Code Snippet

File Name frebsd-src-2/test_main.c
Method get_refdir(const char *d)

```
....
3693.            pwd = getcwd(NULL, PATH_MAX);/* Solaris getcwd needs the
size. */
```

File Name frebsd-src-2/test_main.c
Method main(int argc, char **argv)

```
....
4160.                printf("Reference files will be read from: %s\n",
refdir);
```

Privacy Violation\Path 4:

Severity Low
Result State To Verify
Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1161>
Status New

Method get_refdir at line 3656 of frebsd-src-2/test_main.c sends user information outside the application. This may constitute a Privacy Violation.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3731	3747
Object	pwd	printf

Code Snippet

File Name freebsd-src-2/test_main.c

Method get_readdir(const char *d)

```
....
3731.         if (memcmp(pwd, "/usr/obj", 8) == 0) {
....
3747.         printf("  Checked following directories:\n%s\n", tried);
```

Privacy Violation\Path 5:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1162>

Status New

Method get_readdir at line 3656 of freebsd-src-2/test_main.c sends user information outside the application. This may constitute a Privacy Violation.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3693	3747
Object	pwd	printf

Code Snippet

File Name freebsd-src-2/test_main.c

Method get_readdir(const char *d)

```
....
3693.         pwd = getcwd(NULL, PATH_MAX);/* Solaris getcwd needs the
size. */
....
3747.         printf("  Checked following directories:\n%s\n", tried);
```

Privacy Violation\Path 6:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1163>

Status New

Method get_readdir at line 3656 of freebsd-src-2/test_main.c sends user information outside the application. This may constitute a Privacy Violation.

	Source	Destination
File	freebsd-src-2/test_main.c	freebsd-src-2/test_main.c
Line	3698	3747
Object	pwd	printf

Code Snippet

File Name freebsd-src-2/test_main.c

Method get_refdir(const char *d)

```
....  
3698.          pwd[strlen(pwd) - 1] = '\\0';  
....  
3747.          printf("  Checked following directories:\\n%s\\n", tried);
```

Arithmenic Operation On Boolean

Query Path:

CPP\\Cx\\CPP Low Visibility\\Arithmenic Operation On Boolean Version:1

Categories

FISMA 2014: Audit And Accountability

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

Description

Arithmenic Operation On Boolean\\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=423
Status	New

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	696	696
Object	>	>

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method int64_t X86_64::getImplicitAddend(const uint8_t *buf, RelType type) const {

```
....  
696.          return SignExtend64<8>(*buf);
```

Arithmenic Operation On Boolean\\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=424

Status	New
--------	-----

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	699	699
Object	>	>

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method int64_t X86_64::getImplicitAddend(const uint8_t *buf, RelType type) const {

```
....  
699.         return SignExtend64<16>(read16le(buf));
```

Arithmetic Operation On Boolean\Path 3:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=425>

Status New

	Source	Destination
File	freebsd-src-2/X86_64.cpp	freebsd-src-2/X86_64.cpp
Line	716	716
Object	>	>

Code Snippet

File Name freebsd-src-2/X86_64.cpp

Method int64_t X86_64::getImplicitAddend(const uint8_t *buf, RelType type) const {

```
....  
716.         return SignExtend64<32>(read32le(buf));
```

Arithmetic Operation On Boolean\Path 4:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=426>

Status New

	Source	Destination
File	freebsd-src-2/nsutils.c	freebsd-src-2/nsutils.c
Line	685	685
Object	BinaryExpr	BinaryExpr

Code Snippet

File Name freebsd-src-2/nsutils.c
Method AcpiNsExternalizeName (

```
....  
685.           RequiredLength = PrefixLength + (4 * NumSegments) +
```

Potential Off by One Error in Loops

Query Path:

CPP\Cx\CPP Heuristic\Potential Off by One Error in Loops Version:1

Categories

PCI DSS v3.2: PCI DSS (3.2) - 6.5.1 - Injection flaws - particularly SQL injection

NIST SP 800-53: SI-16 Memory Protection (P1)

OWASP Top 10 2017: A1-Injection

Description

Potential Off by One Error in Loops\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=210
Status	New

The buffer allocated by `<=` in `freebsd-src-2/ext2_extents.c` at line 575 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	freebsd-src-2/ext2_extents.c	freebsd-src-2/ext2_extents.c
Line	583	583
Object	<code><=</code>	<code><=</code>

Code Snippet

File Name freebsd-src-2/ext2_extents.c
Method ext4_ext_drop_refs(struct ext4_extent_path *path)

```
....  
583.           for (i = 0; i <= depth; i++, path++)
```

Potential Off by One Error in Loops\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=211
Status	New

The buffer allocated by `<=` in `freebsd-src-2/init.c` at line 446 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	freebsd-src-2/init.c	freebsd-src-2/init.c
Line	497	497
Object	<=	<=

Code Snippet

File Name freebsd-src-2/init.c

Method int mt7615_register_ext_phy(struct mt7615_dev *dev)

```
.....
497.         for (i = 0; i <= MT_TXQ_PSD ; i++)
```

Potential Off by One Error in Loops\Path 3:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=212>

Status New

The buffer allocated by <= in freebsd-src-2/sh.glob.c at line 150 does not correctly account for the actual size of the value, resulting in an incorrect allocation that is off by one.

	Source	Destination
File	freebsd-src-2/sh.glob.c	freebsd-src-2/sh.glob.c
Line	185	185
Object	<=	<=

Code Snippet

File Name freebsd-src-2/sh.glob.c

Method globbrace(const Char *s, Char ***bl)

```
.....
185.         for (i = 0, pl = pm = p; pm <= pe; pm++)
```

Heuristic 2nd Order Buffer Overflow read

Query Path:

CPP\Cx\CPP Heuristic\Heuristic 2nd Order Buffer Overflow read Version:0

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

Heuristic 2nd Order Buffer Overflow read\Path 1:

Severity Low

Result State To Verify

Online Results <http://WIN->

[BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=393](http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=393)

Status New

The size of the buffer used by `evbuffer_file_segment_materialize` in `BinaryExpr`, at line 3027 of `freebsd-src-2/buffer.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `evbuffer_file_segment_materialize` passes to `BinaryExpr`, at line 3027 of `freebsd-src-2/buffer.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	3107	3107
Object	BinaryExpr	BinaryExpr

Code Snippet

File Name freebsd-src-2/buffer.c

Method `evbuffer_file_segment_materialize(struct evbuffer_file_segment *seg)`

```
....  
3107.                n = read(fd, mem+read_so_far, length-  
read_so_far);
```

Heuristic 2nd Order Buffer Overflow read\Path 2:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=394>

Status New

The size of the buffer used by `evbuffer_file_segment_materialize` in `length`, at line 3027 of `freebsd-src-2/buffer.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `evbuffer_file_segment_materialize` passes to `BinaryExpr`, at line 3027 of `freebsd-src-2/buffer.c`, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/buffer.c	freebsd-src-2/buffer.c
Line	3107	3107
Object	BinaryExpr	length

Code Snippet

File Name freebsd-src-2/buffer.c

Method `evbuffer_file_segment_materialize(struct evbuffer_file_segment *seg)`

```
....  
3107.                n = read(fd, mem+read_so_far, length-  
read_so_far);
```

Heuristic 2nd Order Buffer Overflow read\Path 3:

Severity Low

Result State To Verify

Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=395
Status	New

The size of the buffer used by `evbuffer_file_segment_materialize` in `read_so_far`, at line 3027 of `freebsd-src-2/buffer.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `evbuffer_file_segment_materialize` passes to `BinaryExpr`, at line 3027 of `freebsd-src-2/buffer.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freebsd-src-2/buffer.c</code>	<code>freebsd-src-2/buffer.c</code>
Line	3107	3107
Object	<code>BinaryExpr</code>	<code>read_so_far</code>

Code Snippet

File Name `freebsd-src-2/buffer.c`
 Method `evbuffer_file_segment_materialize(struct evbuffer_file_segment *seg)`

```
....
3107.                n = read(fd, mem+read_so_far, length-
read_so_far);
```

Potential Precision Problem

Query Path:

CPP\Cx\CPP Buffer Overflow\Potential Precision Problem Version:0

Categories

NIST SP 800-53: SI-10 Information Input Validation (P1)
 OWASP Top 10 2017: A1-Injection

Description

Potential Precision Problem\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=396
Status	New

The size of the buffer used by `make_rsid` in `"%s:%s"`, at line 656 of `freebsd-src-2/rtsol.c`, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that `make_rsid` passes to `"%s:%s"`, at line 656 of `freebsd-src-2/rtsol.c`, to overwrite the target buffer.

	Source	Destination
File	<code>freebsd-src-2/rtsol.c</code>	<code>freebsd-src-2/rtsol.c</code>
Line	661	661
Object	<code>"%s:%s"</code>	<code>"%s:%s"</code>

Code Snippet

File Name `freebsd-src-2/rtsol.c`
 Method `make_rsid(const char *ifname, const char *origin, struct rainfo *rai)`

```
....
661.          sprintf(rsid, "%s:%s", ifname, origin);
```

Potential Precision Problem\Path 2:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=397
Status	New

The size of the buffer used by make_rsids in "%s:%s:[%s]", at line 656 of freebsd-src-2/rtsol.c, is not properly verified before writing data to the buffer. This can enable a buffer overflow attack, using the source buffer that make_rsids passes to "%s:%s:[%s]", at line 656 of freebsd-src-2/rtsol.c, to overwrite the target buffer.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c
Line	669	669
Object	"%s:%s:[%s]"	"%s:%s:[%s]"

Code Snippet

File Name freebsd-src-2/rtsol.c
Method make_rsids(const char *ifname, const char *origin, struct rainfo *rai)

```
....
669.          sprintf(rsid, "%s:%s:[%s]", ifname, origin, hbuf);
```

Reliance on DNS Lookups in a Decision

Query Path:

CPP\Cx\CPP Low Visibility\Reliance on DNS Lookups in a Decision Version:0

Categories

FISMA 2014: Identification And Authentication
NIST SP 800-53: SC-23 Session Authenticity (P1)

Description

Reliance on DNS Lookups in a Decision\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1318
Status	New

The make_rsids method performs a reverse DNS lookup with getnameinfo, at line 656 of freebsd-src-2/rtsol.c. The application then makes a security decision, !=, in freebsd-src-2/rtsol.c line 656, even though this hostname is not reliable and can be easily spoofed.

	Source	Destination
File	freebsd-src-2/rtsol.c	freebsd-src-2/rtsol.c

Line	665	667
Object	getnameinfo	!=

Code Snippet

File Name frebsd-src-2/rtsol.c

Method make_rsid(const char *ifname, const char *origin, struct raiinfo *rai)

```

....
665.             if (getnameinfo((struct sockaddr *)&rai->rai_saddr,
....
667.             NI_NUMERICHOST) != 0)

```

Insecure Temporary File

Query Path:

CPP\Cx\CPP Low Visibility\Insecure Temporary File Version:0

Categories

NIST SP 800-53: SC-4 Information in Shared Resources (P1)

OWASP Top 10 2017: A3-Sensitive Data Exposure

Description

Insecure Temporary File\Path 1:

Severity Low

Result State To Verify

Online Results <http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1532>

Status New

	Source	Destination
File	frebsd-src-2/session.c	frebsd-src-2/session.c
Line	269	269
Object	mkstemp	mkstemp

Code Snippet

File Name frebsd-src-2/session.c

Method prepare_auth_info_file(struct passwd *pw, struct sshbuf *info)

```

....
269.             if ((fd = mkstemp(auth_info_file)) == -1) {

```

Information Exposure Through Comments

Query Path:

CPP\Cx\CPP Low Visibility\Information Exposure Through Comments Version:1

Categories

FISMA 2014: Identification And Authentication

NIST SP 800-53: SC-28 Protection of Information at Rest (P1)

Description

Information Exposure Through Comments\Path 1:

Severity	Low
Result State	To Verify
Online Results	http://WIN-BA8RD5TJ8IG/CxWebClient/ViewerMain.aspx?scanid=1060098&projectid=60088&pathid=1600
Status	New

	Source	Destination
File	freebsd-src-2/statem_srvr.c	freebsd-src-2/statem_srvr.c
Line	1743	1743
Object	cipher-	cipher-

Code Snippet

File Name freebsd-src-2/statem_srvr.c

Method /* Check what signalling cipher-suite values were received. */

```
....  
1743.      /* Check what signalling cipher-suite values were received.  
*/
```

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

- Always perform proper bounds checking before copying buffers or strings.
- Prefer to use safer functions and structures, e.g. safe string classes over `char*`, `strncpy` over `strcpy`, and so on.
- Consistently apply tests for the size of buffers.
- 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 (strlen(inputString, MAX_INPUT_SIZE) < sizeof(buffer))
    {
        strncpy(buffer, inputString, sizeof(buffer));
    }
}
```

Off by One Error in Arrays

Risk

What might happen

An off by one error may result in overwriting or over-reading of unintended memory; in most cases, this can result in unexpected behavior and even application crashes. In other cases, where allocation can be controlled by an attacker, a combination of variable assignment and an off by one error can result in execution of malicious code.

Cause

How does it happen

Often when designating variables to memory, a calculation error may occur when determining size or length that is off by one.

For example in loops, when allocating an array of size 2, its cells are counted as 0,1 - therefore, if a For loop iterator on the array is incorrectly set with the start condition $i=0$ and the continuation condition $i \leq 2$, three cells will be accessed instead of 2, and an attempt will be made to write or read cell [2], which was not originally allocated, resulting in potential corruption of memory outside the bounds of the originally assigned array.

Another example occurs when a null-byte terminated string, in the form of a character array, is copied without its terminating null-byte. Without the null-byte, the string representation is unterminated, resulting in certain functions to over-read memory as they expect the missing null terminator.

General Recommendations

How to avoid it

- Always ensure that a given iteration boundary is correct:
 - With array iterations, consider that arrays begin with cell 0 and end with cell $n-1$, for a size n array.
 - With character arrays and null-byte terminated string representations, consider that the null byte is required and should not be overwritten or ignored; ensure functions in use are not vulnerable to off-by-one, specifically for instances where null-bytes are automatically appended after the buffer, instead of in place of its last character.
 - Where possible, use safe functions that manage memory and are not prone to off-by-one errors.
-

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 its 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

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

Source Code Examples

Buffer Overflow OutOfBound

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 its 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

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

Source Code Examples

CGI Stored XSS

Risk

What might happen

Stored malicious data might retrieve system information and exploit the system through CGI (Common Gateway Interface).

Cause

How does it happen

The CGI specification provides opportunities to read files, acquire shell access, and corrupt file systems on server machines and their attached hosts.

Means of gaining access include: exploiting assumptions of the script, exploiting weaknesses in the server environment, and exploiting weaknesses in other programs and system calls.

The primary weakness in CGI scripts is insufficient input validation.

General Recommendations

How to avoid it

Do not provide unnecessary file permissions.

Validate and encode all DB output.

Source Code Examples

Perl

Bad - Printing out data from BD without encoding

```
#!/usr/bin/perl
use CGI;
use DBI;

my $cgi = CGI->new();

$dbh = DBI->connect('dbi:mysql:perltest','root','password')
    or die "Connection Error: $DBI::errstr\n";
$sql = "select * from samples";
$stmt = $dbh->prepare($sql);
$stmt->execute
    or die "SQL Error: $DBI::errstr\n";

my @row = $stmt->fetchrow_array;

print $cgi->header();
    $cgi->start_html(),
    $cgi->p("The result from DB is: ", @row),
    $cgi->end_html;
```

Good - Printing out from DB after encoding

```
#!/usr/bin/perl
use CGI;
use DBI;
use HTML::Entities;

my $cgi = CGI->new();

$dbh = DBI->connect('dbi:mysql:perltest','root','password')
    or die "Connection Error: $DBI::errstr\n";
$sql = "select * from samples";
$stmt = $dbh->prepare($sql);
$stmt->execute
    or die "SQL Error: $DBI::errstr\n";

my @row = $stmt->fetchrow_array;

print $cgi->header();
    $cgi->start_html(),
    $cgi->p("The result from DB is: ", HTML::Entities::encode(@row)),
    $cgi->end_html;
```


Buffer Overflow AddressOfLocalVarReturned

Risk

What might happen

A use after free error will cause code to use an area of memory previously assigned with a specific value, which has since been freed and may have been overwritten by another value. This error will likely cause unexpected behavior, memory corruption and crash errors. In some cases where the freed and used section of memory is used to determine execution flow, and the error can be induced by an attacker, this may result in execution of malicious code.

Cause

How does it happen

Pointers to variables allow code to have an address with a set size to a dynamically allocated variable. Eventually, the pointer's destination may become free - either explicitly in code, such as when programmatically freeing this variable, or implicitly, such as when a local variable is returned - once it is returned, the variable's scope is released. Once freed, this memory will be re-used by the application, overwritten with new data. At this point, dereferencing this pointer will potentially resolve newly written and unexpected data.

General Recommendations

How to avoid it

- Do not return local variables or pointers
 - Review code to ensure no flow allows use of a pointer after it has been explicitly freed
-

Source Code Examples

CPP

Use of Variable after It was Freed

```
free(input);  
printf("%s", input);
```

Use of Pointer to Local Variable That Was Freed On Return

```
int* func1()  
{  
    int i;  
    i = 1;  
    return &i;  
}  
  
void func2()
```

```
{  
    int j;  
    j = 5;  
}  
  
//..  
int * i = func1();  
printf("%d\r\n", *i); // Output could be 1 or Segmentation Fault  
func2();  
printf("%d\r\n", *i); // Output is 5, which is j's value, as func2() overwrote data in  
the stack  
//..
```

Buffer Overflow boundcpy WrongSizeParam

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 its 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

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

Source Code Examples

Char Overflow

Risk

What might happen

Assigning large data types into smaller data types, without proper checks and explicit casting, will lead to undefined behavior and unintentional effects, such as data corruption (e.g. value wraparound, wherein maximum values become minimum values); system crashes; infinite loops; logic errors, such as bypassing of security mechanisms; or even buffer overflows leading to arbitrary code execution.

Cause

How does it happen

This flaw can occur when implicitly casting numerical data types of a larger size, into a variable with a data type of a smaller size. This forces the program to discard some bits of information from the number. Depending on how the numerical data types are stored in memory, this is often the bits with the highest value, causing substantial corruption of the stored number. Alternatively, the sign bit of a signed integer could be lost, completely reversing the intention of the number.

General Recommendations

How to avoid it

- Avoid casting larger data types to smaller types.
 - Prefer promoting the target variable to a large enough data type.
 - If downcasting is necessary, always check that values are valid and in range of the target type, before casting
-

Source Code Examples

CPP

Unsafe Downsize Casting

```
int unsafe_addition(short op1, int op2) {  
    // op2 gets forced from int into a short  
    short total = op1 + op2;  
    return total;  
}
```

Safer Use of Proper Data Types

```
int safe_addition(short op1, int op2) {  
    // total variable is of type int, the largest type that is needed  
    int total = 0;  
    // check if total will overflow available integer size  
    if (INT_MAX - abs(op2) > op1)
```

```
{
    total = op1 + op2;
}
else
{
    // instead of overflow, saturate (but this is not always a good thing)
    total = INT_MAX
}

return total;
}
```

Divide By Zero

Risk

What might happen

When a program divides a number by zero, an exception will be raised. If this exception is not handled by the application, unexpected results may occur, including crashing the application. This can be considered a DoS (Denial of Service) attack, if an external user has control of the value of the denominator or can cause this error to occur.

Cause

How does it happen

The program receives an unexpected value, and uses it for division without filtering, validation, or verifying that the value is not zero. The application does not explicitly handle this error or prevent division by zero from occurring.

General Recommendations

How to avoid it

- Before dividing by an unknown value, validate the number and explicitly ensure it does not evaluate to zero.
 - Validate all untrusted input from all sources, in particular verifying that it is not zero before dividing with it.
 - Verify output of methods, calculations, dictionary lookups, and so on, and ensure it is not zero before dividing with the result.
 - Ensure divide-by-zero errors are caught and handled appropriately.
-

Source Code Examples

Java

Divide by Zero

```
public float getAverage(HttpServletRequest req) {  
    int total = Integer.parseInt(req.getParameter("total"));  
    int count = Integer.parseInt(req.getParameter("count"));  
  
    return total / count;  
}
```

Checked Division

```
public float getAverage(HttpServletRequest req) {  
    int total = Integer.parseInt(req.getParameter("total"));  
    int count = Integer.parseInt(req.getParameter("count"));
```

```
if (count > 0)
    return total / count;
else
    return 0;
}
```

MemoryFree on StackVariable

Risk

What might happen

Undefined Behavior may result with a crash. Crashes may give an attacker valuable information about the system and the program internals. Furthermore, it may leave unprotected files (e.g. memory) that may be exploited.

Cause

How does it happen

Calling `free()` on a variable that was not dynamically allocated (e.g. `malloc`) will result with an Undefined Behavior.

General Recommendations

How to avoid it

Use `free()` only on dynamically allocated variables in order to prevent unexpected behavior from the compiler.

Source Code Examples

CPP

Bad - Calling `free()` on a static variable

```
void clean_up() {  
    char temp[256];  
    do_something();  
    free(tmp);  
    return;  
}
```

Good - Calling `free()` only on variables that were dynamically allocated

```
void clean_up() {  
    char *buff;  
    buff = (char*) malloc(1024);  
    free(buff);  
    return;  
}
```


Wrong Size t Allocation

Risk

What might happen

Incorrect allocation of memory may result in unexpected behavior by either overwriting sections of memory with unexpected values. Under certain conditions where both an incorrect allocation of memory and the values being written can be controlled by an attacker, such an issue may result in execution of malicious code.

Cause

How does it happen

Some memory allocation functions require a size value to be provided as a parameter. The allocated size should be derived from the provided value, by providing the length value of the intended source, multiplied by the size of that length. Failure to perform the correct arithmetic to obtain the exact size of the value will likely result in the source overflowing its destination.

General Recommendations

How to avoid it

- Always perform the correct arithmetic to determine size.
 - Specifically for memory allocation, calculate the allocation size from the allocation source:
 - Derive the size value from the length of intended source to determine the amount of units to be processed.
 - Always programmatically consider the size of the each unit and their conversion to memory units - for example, by using `sizeof()` on the unit's type.
 - Memory allocation should be a multiplication of the amount of units being written, times the size of each unit.
-

Source Code Examples

CPP

Allocating and Assigning Memory without Sizeof Arithmetic

```
int *ptr;
ptr = (int*)malloc(5);
for (int i = 0; i < 5; i++)
{
    ptr[i] = i * 2 + 1;
}
```

Allocating and Assigning Memory with Sizeof Arithmetic

```
int *ptr;
ptr = (int*)malloc(5 * sizeof(int));
```

```
for (int i = 0; i < 5; i++)
{
    ptr[i] = i * 2 + 1;
}
```

Incorrect Arithmetic of Multi-Byte String Allocation

```
wchar_t * dest;
dest = (wchar_t *)malloc(wcslen(source) + 1); // Would not crash for a short "source"
wcscpy((wchar_t *)dest, source);
wprintf(L"Dest: %s\r\n", dest);
```

Correct Arithmetic of Multi-Byte String Allocation

```
wchar_t * dest;
dest = (wchar_t *)malloc((wcslen(source) + 1) * sizeof(wchar_t));
wcscpy((wchar_t *)dest, source);
wprintf(L"Dest: %s\r\n", dest);
```

Integer Overflow

Risk

What might happen

Assigning large data types into smaller data types, without proper checks and explicit casting, will lead to undefined behavior and unintentional effects, such as data corruption (e.g. value wraparound, wherein maximum values become minimum values); system crashes; infinite loops; logic errors, such as bypassing of security mechanisms; or even buffer overflows leading to arbitrary code execution.

Cause

How does it happen

This flaw can occur when implicitly casting numerical data types of a larger size, into a variable with a data type of a smaller size. This forces the program to discard some bits of information from the number. Depending on how the numerical data types are stored in memory, this is often the bits with the highest value, causing substantial corruption of the stored number. Alternatively, the sign bit of a signed integer could be lost, completely reversing the intention of the number.

General Recommendations

How to avoid it

- Avoid casting larger data types to smaller types.
 - Prefer promoting the target variable to a large enough data type.
 - If downcasting is necessary, always check that values are valid and in range of the target type, before casting
-

Source Code Examples

Dangerous Functions

Risk

What might happen

Use of dangerous functions may expose varying risks associated with each particular function, with potential impact of improper usage of these functions varying significantly. The presence of such functions indicates a flaw in code maintenance policies and adherence to secure coding practices, in a way that has allowed introducing known dangerous code into the application.

Cause

How does it happen

A dangerous function has been identified within the code. Functions are often deemed dangerous to use for numerous reasons, as there are different sets of vulnerabilities associated with usage of such functions. For example, some string copy and concatenation functions are vulnerable to Buffer Overflow, Memory Disclosure, Denial of Service and more. Use of these functions is not recommended.

General Recommendations

How to avoid it

- Deploy a secure and recommended alternative to any functions that were identified as dangerous.
 - If no secure alternative is found, conduct further researching and testing to identify whether current usage successfully sanitizes and verifies values, and thus successfully avoids the use-cases for whom the function is indeed dangerous
 - Conduct a periodical review of methods that are in use, to ensure that all external libraries and built-in functions are up-to-date and whose use has not been excluded from best secure coding practices.
-

Source Code Examples

CPP

Buffer Overflow in gets()

```
int main()
{
    char buf[10];

    printf("Please enter your name: ");
    gets(buf); // veryveryverylongname
    if (buf == ACCEPTED_NAME)
    {
        // Do something
    }
    return 0;
}
```

Safe reading from user

```
int main()
{
    char buf[10];

    printf("Please enter your name: ");
    fgets(buf, sizeof(buf), stdin); //setting the amount of bytes to read
    if (buf == ACCEPTED_NAME)
    {
        //Do something
    }
    return 0;
}
```

Unsafe function for string copy

```
int main(int argc, char* argv[])
{
    char buf[10];
    strcpy(buf, argv[1]); // overflow occurs when len(argv[1]) > 10 bytes

    return 0;
}
```

Safe string copy

```
int main(int argc, char* argv[])
{
    char buf[10];
    strncpy(buf, argv[1], sizeof(buf));
    buf[9] = '\0'; //strncpy doesn't NULL terminates

    return 0;
}
```

Unsafe format string

```
int main(int argc, char* argv[])
{
    printf(argv[1]); // If argv[1] contains a format token, such as %s,%x or %d, will cause an access violation
    return 0;
}
```

Safe format string

```
int main(int argc, char* argv[])
{
    printf("%s", argv[1]); // Second parameter is not a formattable string
    return 0;
}
```

Double Free

Weakness ID: 415 (*Weakness Variant*)

Status: Draft

Description

Description Summary

The product calls `free()` twice on the same memory address, potentially leading to modification of unexpected memory locations.

Extended Description

When a program calls `free()` twice with the same argument, the program's memory management data structures become corrupted. This corruption can cause the program to crash or, in some circumstances, cause two later calls to `malloc()` to return the same pointer. If `malloc()` returns the same value twice and the program later gives the attacker control over the data that is written into this doubly-allocated memory, the program becomes vulnerable to a buffer overflow attack.

Alternate Terms

Double-free

Time of Introduction

- Architecture and Design
- Implementation

Applicable Platforms

Languages

C

C++

Common Consequences

Scope	Effect
Access Control	Doubly freeing memory may result in a write-what-where condition, allowing an attacker to execute arbitrary code.

Likelihood of Exploit

Low to Medium

Demonstrative Examples

Example 1

The following code shows a simple example of a double free vulnerability.

(Bad Code)

Example Language: C

```
char* ptr = (char*)malloc (SIZE);
...
if (abrt) {
    free(ptr);
}
...
free(ptr);
```

Double free vulnerabilities have two common (and sometimes overlapping) causes:

- Error conditions and other exceptional circumstances
- Confusion over which part of the program is responsible for freeing the memory

Although some double free vulnerabilities are not much more complicated than the previous example, most are spread out across hundreds of lines of code or even different files. Programmers seem particularly susceptible to freeing global variables

more than once.

Example 2

While contrived, this code should be exploitable on Linux distributions which do not ship with heap-chunk check summing turned on.

(Bad Code)

Example Language: C

```
#include <stdio.h>
#include <unistd.h>
#define BUFSIZE1 512
#define BUFSIZE2 ((BUFSIZE1/2) - 8)

int main(int argc, char **argv) {
    char *buf1R1;
    char *buf2R1;
    char *buf1R2;
    buf1R1 = (char *) malloc(BUFSIZE2);
    buf2R1 = (char *) malloc(BUFSIZE2);
    free(buf1R1);
    free(buf2R1);
    buf1R2 = (char *) malloc(BUFSIZE1);
    strncpy(buf1R2, argv[1], BUFSIZE1-1);
    free(buf2R1);
    free(buf1R2);
}
```

Observed Examples

Reference	Description
CVE-2004-0642	Double free resultant from certain error conditions.
CVE-2004-0772	Double free resultant from certain error conditions.
CVE-2005-1689	Double free resultant from certain error conditions.
CVE-2003-0545	Double free from invalid ASN.1 encoding.
CVE-2003-1048	Double free from malformed GIF.
CVE-2005-0891	Double free from malformed GIF.
CVE-2002-0059	Double free from malformed compressed data.

Potential Mitigations

Phase: Architecture and Design

Choose a language that provides automatic memory management.

Phase: Implementation

Ensure that each allocation is freed only once. After freeing a chunk, set the pointer to NULL to ensure the pointer cannot be freed again. In complicated error conditions, be sure that clean-up routines respect the state of allocation properly. If the language is object oriented, ensure that object destructors delete each chunk of memory only once.

Phase: Implementation

Use a static analysis tool to find double free instances.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Class	398	Indicator of Poor Code Quality	Seven Pernicious Kingdoms (primary)700
ChildOf	Category	399	Resource Management Errors	Development Concepts (primary)699
ChildOf	Category	633	Weaknesses that Affect Memory	Resource-specific Weaknesses (primary)631
ChildOf	Weakness Base	666	Operation on Resource in Wrong Phase of	Research Concepts (primary)1000

ChildOf	Weakness Class	675	Lifetime Duplicate Operations on Resource	Research Concepts1000
ChildOf	Category	742	CERT C Secure Coding Section 08 - Memory Management (MEM)	Weaknesses Addressed by the CERT C Secure Coding Standard (primary)734
PeerOf	Weakness Base	123	Write-what-where Condition	Research Concepts1000
PeerOf	Weakness Base	416	Use After Free	Development Concepts699 Research Concepts1000
MemberOf	View	630	Weaknesses Examined by SAMATE	Weaknesses Examined by SAMATE (primary)630
PeerOf	Weakness Base	364	Signal Handler Race Condition	Research Concepts1000

Relationship Notes

This is usually resultant from another weakness, such as an unhandled error or race condition between threads. It could also be primary to weaknesses such as buffer overflows.

Affected Resources

Memory

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
PLOVER			DFREE - Double-Free Vulnerability
7 Pernicious Kingdoms			Double Free
CLASP			Doubly freeing memory
CERT C Secure Coding	MEM00-C		Allocate and free memory in the same module, at the same level of abstraction
CERT C Secure Coding	MEM01-C		Store a new value in pointers immediately after free()
CERT C Secure Coding	MEM31-C		Free dynamically allocated memory exactly once

White Box Definitions

A weakness where code path has:

1. start statement that relinquishes a dynamically allocated memory resource
2. end statement that relinquishes the dynamically allocated memory resource

Maintenance Notes

It could be argued that Double Free would be most appropriately located as a child of "Use after Free", but "Use" and "Release" are considered to be distinct operations within vulnerability theory, therefore this is more accurately "Release of a Resource after Expiration or Release", which doesn't exist yet.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	PLOVER		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci	Cigital	External
	updated Potential Mitigations, Time of Introduction		
2008-08-01		KDM Analytics	External
	added/updated white box definitions		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Description, Maintenance Notes, Relationships, Other Notes, Relationship Notes, Taxonomy Mappings		
2008-11-24	CWE Content Team	MITRE	Internal

	updated Relationships, Taxonomy Mappings		
2009-05-27	CWE Content Team	MITRE	Internal
	updated Demonstrative Examples		
2009-10-29	CWE Content Team	MITRE	Internal
	updated Other Notes		

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Path Traversal

Risk

What might happen

An attacker could define any arbitrary file path for the application to use, potentially leading to:

- Stealing sensitive files, such as configuration or system files
- Overwriting files such as program binaries, configuration files, or system files
- Deleting critical files, causing a denial of service (DoS).

Cause

How does it happen

The application uses user input in the file path for accessing files on the application server's local disk. This enables an attacker to arbitrarily determine the file path.

General Recommendations

How to avoid it

1. Ideally, avoid depending on user input for file selection.
2. Validate all input, regardless of source. Validation should be based on a whitelist: accept only data fitting a specified structure, rather than reject bad patterns. Check for:
 - Data type
 - Size
 - Range
 - Format
 - Expected values
3. Accept user input only for the filename, not for the path and folders.
4. Ensure that file path is fully canonicalized.
5. Explicitly limit the application to using a designated folder that separate from the applications binary folder.
6. Restrict the privileges of the application's OS user to necessary files and folders. The application should not be able to write to the application binary folder, and should not read anything outside of the application folder and data folder.

Source Code Examples

CSharp

Using unvalidated user input as the file name may enable the user to access arbitrary files on the server local disk

```
public class PathTraversal
{
    private void foo(TextBox textbox1)
    {
        string fileNum = textbox1.Text;
        string path = "c:\\files\\file" + fileNum;
        FileStream f = new FileStream(path, FileMode.Open);
        byte[] output = new byte[10];
        f.Read(output, 0, 10);
    }
}
```

```
}  
}
```

Potentially hazardous characters are removed from the user input before use

```
public class PathTraversalFixed  
{  
    private void foo(TextBox textbox1)  
    {  
        string fileNum = textbox1.Text.Replace("\", "").Replace("..", "");  
  
        string path = "c:\\files\\file" + fileNum;  
        FileStream f = new FileStream(path, FileMode.Open);  
        byte[] output = new byte[10];  
        f.Read(output, 0, 10);  
    }  
}
```

Java

Using unvalidated user input as the file name may enable the user to access arbitrary files on the server local disk

```
public class Absolute_Path_Traversal {  
    public static void main(String[] args) {  
        Scanner userInputScanner = new Scanner(System.in);  
        System.out.print("\nEnter file name: ");  
        String name = userInputScanner.nextLine();  
        String path = "c:\\files\\file" + name;  
        try {  
            BufferedReader reader = new BufferedReader(new FileReader(path));  
        } catch (Exception e) {  
            e.printStackTrace();  
        }  
    }  
}
```

Potentially hazardous characters are removed from the user input before use

```
public class Absolute_Path_Traversal_Fixed {  
    public static void main(String[] args) {  
        Scanner userInputScanner = new Scanner(System.in);  
        System.out.print("\nEnter file name: ");  
        String name = userInputScanner.nextLine();  
        name = name.replace("/", "").replace("..", "");  
        String path = "c:\\files\\file" + name;  
        try {  
            BufferedReader reader = new BufferedReader(new FileReader(path));  
        } catch (Exception e) {  
            e.printStackTrace();  
        }  
    }  
}
```

Heap Inspection

Risk

What might happen

All variables stored by the application in unencrypted memory can potentially be retrieved by an unauthorized user, with privileged access to the machine. For example, a privileged attacker could attach a debugger to the running process, or retrieve the process's memory from the swapfile or crash dump file.

Once the attacker finds the user passwords in memory, these can be reused to easily impersonate the user to the system.

Cause

How does it happen

String variables are immutable - in other words, once a string variable is assigned, its value cannot be changed or removed. Thus, these strings may remain around in memory, possibly in multiple locations, for an indefinite period of time until the garbage collector happens to remove it. Sensitive data, such as passwords, will remain exposed in memory as plaintext with no control over their lifetime.

General Recommendations

How to avoid it

Generic Guidance:

- Do not store sensitive data, such as passwords or encryption keys, in memory in plaintext, even for a short period of time.
- Prefer to use specialized classes that store encrypted memory.
- Alternatively, store secrets temporarily in mutable data types, such as byte arrays, and then promptly zeroize the memory locations.

Specific Recommendations - Java:

- Instead of storing passwords in immutable strings, prefer to use an encrypted memory object, such as `SealedObject`.

Specific Recommendations - .NET:

- Instead of storing passwords in immutable strings, prefer to use an encrypted memory object, such as `SecureString` or `ProtectedData`.
-

Source Code Examples

Java

Plaintext Password in Immutable String

```
class Heap_Inspection
{
    private string password;

    void setPassword()
```

```
{  
    password = System.console().readLine("Enter your password: ");  
}  
}
```

Password Protected in Memory

```
class Heap_Inspection_Fixed  
{  
    private SealedObject password;  
  
    void setPassword()  
    {  
        byte[] sKey = getKeyFromConfig();  
        Cipher c = Cipher.getInstance("AES");  
        c.init(Cipher.ENCRYPT_MODE, sKey);  
  
        char[] input = System.console().readPassword("Enter your password: ");  
        password = new SealedObject(Arrays.asList(input), c);  
  
        //Zero out the possible password, for security.  
        Arrays.fill(password, '0');  
    }  
}
```

CPP

Vulnerable C code

```
/* Vulnerable to heap inspection */  
  
#include <stdio.h>  
  
void somefunc() {  
    printf("Yea, I'm just being called for the heap of it..\n");  
}  
  
void authfunc() {  
    char* password = (char *) malloc(256);  
    char ch;  
    ssize_t k;  
    int i=0;  
    while(k = read(0, &ch, 1) > 0)  
    {  
        if (ch == '\n') {  
            password[i]='\0';  
            break;  
        } else {  
            password[i++]=ch;  
            fflush(0);  
        }  
    }  
    printf("Password: %s\n", &password[0]);  
}  
  
int main()  
{  
    printf("Please enter a password:\n");  
  
    authfunc();  
    printf("You can now dump memory to find this password!");  
    somefunc();  
}
```

```
    gets();  
  
}
```

Safe C code

```
/* Presumably safe heap */  
  
#include <stdio.h>  
#include <string.h>  
  
#define STDIN_FILENO 0  
  
void somefunc() {  
    printf("Yea, I'm just being called for the heap of it..\n");  
}  
  
void authfunc() {  
    char* password = (char*) malloc(256);  
    int i=0;  
    char ch;  
    ssize_t k;  
    while(k = read(STDIN_FILENO, &ch, 1) > 0)  
    {  
        if (ch == '\n') {  
            password[i]='\0';  
            break;  
        } else {  
            password[i++]=ch;  
            fflush(0);  
        }  
    }  
    i=0;  
    memset(password, '\0', 256);  
}  
  
int main()  
{  
  
    printf("Please enter a password:\n");  
    authfunc();  
    somefunc();  
    char ch;  
    while(read(STDIN_FILENO, &ch, 1) > 0)  
    {  
        if (ch == '\n')  
            break;  
    }  
}
```

Failure to Release Memory Before Removing Last Reference ('Memory Leak')

Weakness ID: 401 (*Weakness Base*)

Status: Draft

Description

Description Summary

The software does not sufficiently track and release allocated memory after it has been used, which slowly consumes remaining memory.

Extended Description

This is often triggered by improper handling of malformed data or unexpectedly interrupted sessions.

Terminology Notes

"memory leak" has sometimes been used to describe other kinds of issues, e.g. for information leaks in which the contents of memory are inadvertently leaked (CVE-2003-0400 is one such example of this terminology conflict).

Time of Introduction

- Architecture and Design
- Implementation

Applicable Platforms

Languages

C

C++

Modes of Introduction

Memory leaks have two common and sometimes overlapping causes:

- Error conditions and other exceptional circumstances
- Confusion over which part of the program is responsible for freeing the memory

Common Consequences

Scope	Effect
Availability	Most memory leaks result in general software reliability problems, but if an attacker can intentionally trigger a memory leak, the attacker might be able to launch a denial of service attack (by crashing or hanging the program) or take advantage of other unexpected program behavior resulting from a low memory condition.

Likelihood of Exploit

Medium

Demonstrative Examples

Example 1

The following C function leaks a block of allocated memory if the call to read() fails to return the expected number of bytes:

(Bad Code)

Example Language: C

```
char* getBlock(int fd) {
char* buf = (char*) malloc(BLOCK_SIZE);
if (!buf) {
return NULL;
}
if (read(fd, buf, BLOCK_SIZE) != BLOCK_SIZE) {

return NULL;
}
```



```
return buf;
}
```

Example 2

Here the problem is that every time a connection is made, more memory is allocated. So if one just opened up more and more connections, eventually the machine would run out of memory.

(Bad Code)

Example Language: C

```
bar connection(){
foo = malloc(1024);
return foo;
}

endConnection(bar foo) {

free(foo);
}

int main() {

while(1) //thread 1
//On a connection
foo=connection(); //thread 2
//When the connection ends
endConnection(foo)
}
```

Observed Examples

Reference	Description
CVE-2005-3119	Memory leak because function does not free() an element of a data structure.
CVE-2004-0427	Memory leak when counter variable is not decremented.
CVE-2002-0574	Memory leak when counter variable is not decremented.
CVE-2005-3181	Kernel uses wrong function to release a data structure, preventing data from being properly tracked by other code.
CVE-2004-0222	Memory leak via unknown manipulations as part of protocol test suite.
CVE-2001-0136	Memory leak via a series of the same command.

Potential Mitigations

Pre-design: Use a language or compiler that performs automatic bounds checking.

Phase: Architecture and Design

Use an abstraction library to abstract away risky APIs. Not a complete solution.

Pre-design through Build: The Boehm-Demers-Weiser Garbage Collector or valgrind can be used to detect leaks in code. This is not a complete solution as it is not 100% effective.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Class	398	Indicator of Poor Code Quality	Seven Pernicious Kingdoms (primary)700
ChildOf	Category	399	Resource Management Errors	Development Concepts (primary)699
ChildOf	Category	633	Weaknesses that Affect Memory	Resource-specific Weaknesses (primary)631
ChildOf	Category	730	OWASP Top Ten 2004 Category A9 - Denial of Service	Weaknesses in OWASP Top Ten (2004) (primary)711
ChildOf	Weakness Base	772	Missing Release of Resource after Effective	Research Concepts (primary)1000

MemberOf	View	630	Lifetime Weaknesses Examined by SAMATE	Weaknesses Examined by SAMATE (primary) 630 Research Concepts1000
CanFollow	Weakness Class	390	Detection of Error Condition Without Action	

Relationship Notes

This is often a resultant weakness due to improper handling of malformed data or early termination of sessions.

Affected Resources

- Memory

Functional Areas

- Memory management

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
PLOVER			Memory leak
7 Pernicious Kingdoms			Memory Leak
CLASP			Failure to deallocate data
OWASP Top Ten 2004	A9	CWE More Specific	Denial of Service

White Box Definitions

A weakness where the code path has:

1. start statement that allocates dynamically allocated memory resource
2. end statement that loses identity of the dynamically allocated memory resource creating situation where dynamically allocated memory resource is never relinquished

Where "loses" is defined through the following scenarios:

1. identity of the dynamic allocated memory resource never obtained
2. the statement assigns another value to the data element that stored the identity of the dynamically allocated memory resource and there are no aliases of that data element
3. identity of the dynamic allocated memory resource obtained but never passed on to function for memory resource release
4. the data element that stored the identity of the dynamically allocated resource has reached the end of its scope at the statement and there are no aliases of that data element

References

J. Whittaker and H. Thompson. "How to Break Software Security". Addison Wesley. 2003.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	PLOVER		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci	Cigital	External
	updated Time of Introduction		
2008-08-01		KDM Analytics	External
	added/updated white box definitions		
2008-08-15		Veracode	External
	Suggested OWASP Top Ten 2004 mapping		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Relationships, Other Notes, References, Relationship Notes, Taxonomy Mappings, Terminology Notes		
2008-10-14	CWE Content Team	MITRE	Internal
	updated Description		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Other Notes		
2009-05-27	CWE Content Team	MITRE	Internal
	updated Name		
2009-07-17	KDM Analytics		External
	Improved the White Box Definition		

2009-07-27	CWE Content Team	MITRE	Internal	
	updated White Box Definitions			
2009-10-29	CWE Content Team	MITRE	Internal	
	updated Modes of Introduction, Other Notes			
2010-02-16	CWE Content Team	MITRE	Internal	
	updated Relationships			
Previous Entry Names				
Change Date	Previous Entry Name			
2008-04-11	Memory Leak			
2009-05-27	Failure to Release Memory Before Removing Last Reference (aka 'Memory Leak')			

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Use of Uninitialized Pointer

Risk

What might happen

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

Cause

How does it happen

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

General Recommendations

How to avoid it

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

Source Code Examples

Use of Uninitialized Variable

Weakness ID: 457 (Weakness Variant)

Status: Draft

Description

Description Summary

The code uses a variable that has not been initialized, leading to unpredictable or unintended results.

Extended Description

In some languages, such as C, an uninitialized variable contains contents of previously-used memory. An attacker can sometimes control or read these contents.

Time of Introduction

Implementation

Applicable Platforms

Languages

C: (Sometimes)

C++: (Sometimes)

Perl: (Often)

All

Common Consequences

Scope	Effect
Availability Integrity	Initial variables usually contain junk, which can not be trusted for consistency. This can lead to denial of service conditions, or modify control flow in unexpected ways. In some cases, an attacker can "pre-initialize" the variable using previous actions, which might enable code execution. This can cause a race condition if a lock variable check passes when it should not.
Authorization	Strings that are not initialized are especially dangerous, since many functions expect a null at the end -- and only at the end - of a string.

Likelihood of Exploit

High

Demonstrative Examples

Example 1

The following switch statement is intended to set the values of the variables aN and bN, but in the default case, the programmer has accidentally set the value of aN twice. As a result, bN will have an undefined value.

(Bad Code)

Example Language: C

```
switch (ctl) {  
case -1:  
aN = 0;  
bN = 0;  
break;  
case 0:  
aN = i;  
bN = -i;  
break;  
case 1:  
aN = i + NEXT_SZ;  
bN = i - NEXT_SZ;  
break;  
default:  
aN = 0;  
bN = 0;  
break;  
}
```

```
aN = -1;
aN = -1;
break;
}
repaint(aN, bN);
```

Most uninitialized variable issues result in general software reliability problems, but if attackers can intentionally trigger the use of an uninitialized variable, they might be able to launch a denial of service attack by crashing the program. Under the right circumstances, an attacker may be able to control the value of an uninitialized variable by affecting the values on the stack prior to the invocation of the function.

Example 2

Example Languages: C++ and Java

```
int foo;
void bar() {
if (foo==0)
/.../
/..//
}
```

Observed Examples

Reference	Description
CVE-2008-0081	Uninitialized variable leads to code execution in popular desktop application.
CVE-2007-4682	Crafted input triggers dereference of an uninitialized object pointer.
CVE-2007-3468	Crafted audio file triggers crash when an uninitialized variable is used.
CVE-2007-2728	Uninitialized random seed variable used.

Potential Mitigations

Phase: Implementation

Assign all variables to an initial value.

Phase: Build and Compilation

Most compilers will complain about the use of uninitialized variables if warnings are turned on.

Phase: Requirements

The choice could be made to use a language that is not susceptible to these issues.

Phase: Architecture and Design

Mitigating technologies such as safe string libraries and container abstractions could be introduced.

Other Notes

Before variables are initialized, they generally contain junk data of what was left in the memory that the variable takes up. This data is very rarely useful, and it is generally advised to pre-initialize variables or set them to their first values early. If one forgets -- in the C language -- to initialize, for example a char *, many of the simple string libraries may often return incorrect results as they expect the null termination to be at the end of a string.

Stack variables in C and C++ are not initialized by default. Their initial values are determined by whatever happens to be in their location on the stack at the time the function is invoked. Programs should never use the value of an uninitialized variable. It is not uncommon for programmers to use an uninitialized variable in code that handles errors or other rare and exceptional circumstances. Uninitialized variable warnings can sometimes indicate the presence of a typographic error in the code.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Class	398	Indicator of Poor Code Quality	Seven Pernicious Kingdoms (primary)700
ChildOf	Weakness Base	456	Missing Initialization	Development Concepts (primary)699 Research Concepts

MemberOf	View	630	Weaknesses Examined by SAMATE	(primary)1000 Weaknesses Examined by SAMATE (primary)630
----------	------	-----	---	---

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
CLASP			Uninitialized variable
7 Pernicious Kingdoms			Uninitialized Variable

White Box Definitions

A weakness where the code path has:

1. start statement that defines variable
2. end statement that accesses the variable
3. the code path does not contain a statement that assigns value to the variable

References

mercy. "Exploiting Uninitialized Data". Jan 2006. < <http://www.felinemenace.org/~mercy/papers/UBehavior/UBehavior.zip>>.

Microsoft Security Vulnerability Research & Defense. "MS08-014 : The Case of the Uninitialized Stack Variable Vulnerability". 2008-03-11. <<http://blogs.technet.com/swi/archive/2008/03/11/the-case-of-the-uninitialized-stack-variable-vulnerability.aspx>>.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	CLASP		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci	Cigital	External
	updated Time of Introduction		
2008-08-01		KDM Analytics	External
	added/updated white box definitions		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Description, Relationships, Observed Example, Other Notes, References, Taxonomy Mappings		
2009-01-12	CWE Content Team	MITRE	Internal
	updated Common Consequences, Demonstrative Examples, Potential Mitigations		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Demonstrative Examples		
2009-05-27	CWE Content Team	MITRE	Internal
	updated Demonstrative Examples		
Previous Entry Names			
Change Date	Previous Entry Name		
2008-04-11	Uninitialized Variable		

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Use of Zero Initialized Pointer

Risk

What might happen

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

Cause

How does it happen

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

General Recommendations

How to avoid it

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

Source Code Examples

CPP

Explicit NULL Dereference

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

Implicit NULL Dereference

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

Java

Explicit Null Dereference

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




Use of Function with Inconsistent Implementations

Weakness ID: 474 (*Weakness Base*)

Status: Draft

Description

Description Summary

The code uses a function that has inconsistent implementations across operating systems and versions, which might cause security-relevant portability problems.

Time of Introduction

- Architecture and Design
- Implementation

Applicable Platforms

Languages

C: (*Often*)

PHP: (*Often*)

All

Potential Mitigations

Do not accept inconsistent behavior from the API specifications when the deviant behavior increase the risk level.

Other Notes

The behavior of functions in this category varies by operating system, and at times, even by operating system version. Implementation differences can include:

- Slight differences in the way parameters are interpreted leading to inconsistent results.
- Some implementations of the function carry significant security risks.
- The function might not be defined on all platforms.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Class	398	Indicator of Poor Code Quality	Development Concepts (primary)699 Seven Pernicious Kingdoms (primary)700 Research Concepts (primary)1000
ParentOf	Weakness Variant	589	Call to Non-ubiquitous API	Research Concepts (primary)1000

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
7 Pernicious Kingdoms			Inconsistent Implementations

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	7 Pernicious Kingdoms		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci	Cigital	External
	updated Potential Mitigations, Time of Introduction		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Relationships, Other Notes, Taxonomy Mappings		
Previous Entry Names			
Change Date	Previous Entry Name		
2008-04-11	Inconsistent Implementations		

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Potential Off by One Error in Loops

Risk

What might happen

An off by one error may result in overwriting or over-reading of unintended memory; in most cases, this can result in unexpected behavior and even application crashes. In other cases, where allocation can be controlled by an attacker, a combination of variable assignment and an off by one error can result in execution of malicious code.

Cause

How does it happen

Often when designating variables to memory, a calculation error may occur when determining size or length that is off by one.

For example in loops, when allocating an array of size 2, its cells are counted as 0,1 - therefore, if a For loop iterator on the array is incorrectly set with the start condition `i=0` and the continuation condition `i<=2`, three cells will be accessed instead of 2, and an attempt will be made to write or read cell [2], which was not originally allocated, resulting in potential corruption of memory outside the bounds of the originally assigned array.

Another example occurs when a null-byte terminated string, in the form of a character array, is copied without its terminating null-byte. Without the null-byte, the string representation is unterminated, resulting in certain functions to over-read memory as they expect the missing null terminator.

General Recommendations

How to avoid it

- Always ensure that a given iteration boundary is correct:
 - With array iterations, consider that arrays begin with cell 0 and end with cell `n-1`, for a size `n` array.
 - With character arrays and null-byte terminated string representations, consider that the null byte is required and should not be overwritten or ignored; ensure functions in use are not vulnerable to off-by-one, specifically for instances where null-bytes are automatically appended after the buffer, instead of in place of its last character.
 - Where possible, use safe functions that manage memory and are not prone to off-by-one errors.
-

Source Code Examples

CPP

Off-By-One in For Loop

```
int *ptr;
ptr = (int*)malloc(5 * sizeof(int));
for (int i = 0; i <= 5; i++)
{
    ptr[i] = i * 2 + 1; // ptr[5] will be set, but is out of bounds
}
```

```
}
```

Proper Iteration in For Loop

```
int *ptr;
ptr = (int*)malloc(5 * sizeof(int));
for (int i = 0; i < 5; i++)
{
    ptr[i] = i * 2 + 1; // ptr[0-4] are well defined
}
```

Off-By-One in strncat

```
strncat(buf, input, sizeof(buf) - strlen(buf)); // actual value should be sizeof(buf) -  
strlen(buf)-1 - this form will overwrite the terminating nullbyte
```

Heuristic 2nd Order Buffer Overflow read

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 its 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

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

Source Code Examples

Potential Precision Problem

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 its 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

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

Source Code Examples

Indicator of Poor Code Quality

Weakness ID: 398 (*Weakness Class*)

Status: Draft

Description

Description Summary

The code has features that do not directly introduce a weakness or vulnerability, but indicate that the product has not been carefully developed or maintained.

Extended Description

Programs are more likely to be secure when good development practices are followed. If a program is complex, difficult to maintain, not portable, or shows evidence of neglect, then there is a higher likelihood that weaknesses are buried in the code.

Time of Introduction

- Architecture and Design
- Implementation

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	18	Source Code	Development Concepts (primary)699
ChildOf	Weakness Class	710	Coding Standards Violation	Research Concepts (primary)1000
ParentOf	Weakness Variant	107	Struts: Unused Validation Form	Research Concepts (primary)1000
ParentOf	Weakness Variant	110	Struts: Validator Without Form Field	Research Concepts (primary)1000
ParentOf	Category	399	Resource Management Errors	Development Concepts (primary)699
ParentOf	Weakness Base	401	Failure to Release Memory Before Removing Last Reference ('Memory Leak')	Seven Pernicious Kingdoms (primary)700
ParentOf	Weakness Base	404	Improper Resource Shutdown or Release	Development Concepts699 Seven Pernicious Kingdoms (primary)700
ParentOf	Weakness Variant	415	Double Free	Seven Pernicious Kingdoms (primary)700
ParentOf	Weakness Base	416	Use After Free	Seven Pernicious Kingdoms (primary)700
ParentOf	Weakness Variant	457	Use of Uninitialized Variable	Seven Pernicious Kingdoms (primary)700
ParentOf	Weakness Base	474	Use of Function with Inconsistent Implementations	Development Concepts (primary)699 Seven Pernicious Kingdoms (primary)700 Research Concepts (primary)1000
ParentOf	Weakness Base	475	Undefined Behavior for Input to API	Development Concepts (primary)699 Seven Pernicious Kingdoms (primary)700
ParentOf	Weakness Base	476	NULL Pointer	Development

			Dereference	Concepts (primary)699 Seven Pernicious Kingdoms (primary)700 Research Concepts (primary)1000
ParentOf	Weakness Base	477	Use of Obsolete Functions	Development Concepts (primary)699 Seven Pernicious Kingdoms (primary)700 Research Concepts (primary)1000
ParentOf	Weakness Variant	478	Missing Default Case in Switch Statement	Development Concepts (primary)699
ParentOf	Weakness Variant	479	Unsafe Function Call from a Signal Handler	Development Concepts (primary)699
ParentOf	Weakness Variant	483	Incorrect Block Delimitation	Development Concepts (primary)699
ParentOf	Weakness Base	484	Omitted Break Statement in Switch	Development Concepts (primary)699 Research Concepts1000
ParentOf	Weakness Variant	546	Suspicious Comment	Development Concepts (primary)699 Research Concepts (primary)1000
ParentOf	Weakness Variant	547	Use of Hard-coded, Security-relevant Constants	Development Concepts (primary)699 Research Concepts (primary)1000
ParentOf	Weakness Variant	561	Dead Code	Development Concepts (primary)699 Research Concepts (primary)1000
ParentOf	Weakness Base	562	Return of Stack Variable Address	Development Concepts (primary)699 Research Concepts1000
ParentOf	Weakness Variant	563	Unused Variable	Development Concepts (primary)699 Research Concepts (primary)1000
ParentOf	Category	569	Expression Issues	Development Concepts (primary)699
ParentOf	Weakness Variant	585	Empty Synchronized Block	Development Concepts (primary)699 Research Concepts (primary)1000
ParentOf	Weakness Variant	586	Explicit Call to Finalize()	Development Concepts (primary)699
ParentOf	Weakness Variant	617	Reachable Assertion	Development Concepts (primary)699
ParentOf	Weakness Base	676	Use of Potentially Dangerous Function	Development Concepts (primary)699 Research Concepts (primary)1000
MemberOf	View	700	Seven Pernicious Kingdoms	Seven Pernicious Kingdoms (primary)700

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
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7 Pernicious Kingdoms			Code Quality
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Content History

Submissions

Submission Date	Submitter	Organization	Source
	7 Pernicious Kingdoms		Externally Mined

Modifications

Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci updated Time of Introduction	Cigital	External
2008-09-08	CWE Content Team updated Description, Relationships, Taxonomy Mappings	MITRE	Internal
2009-10-29	CWE Content Team updated Relationships	MITRE	Internal

Previous Entry Names

Change Date	Previous Entry Name
2008-04-11	Code Quality

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Improper Access Control (Authorization)

Weakness ID: 285 (*Weakness Class*)

Status: Draft

Description

Description Summary

The software does not perform or incorrectly performs access control checks across all potential execution paths.

Extended Description

When access control checks are not applied consistently - or not at all - users are able to access data or perform actions that they should not be allowed to perform. This can lead to a wide range of problems, including information leaks, denial of service, and arbitrary code execution.

Alternate Terms

AuthZ:

"AuthZ" is typically used as an abbreviation of "authorization" within the web application security community. It is also distinct from "AuthC," which is an abbreviation of "authentication." The use of "Auth" as an abbreviation is discouraged, since it could be used for either authentication or authorization.

Time of Introduction

- Architecture and Design
- Implementation
- Operation

Applicable Platforms

Languages

Language-independent

Technology Classes

Web-Server: (*Often*)

Database-Server: (*Often*)

Modes of Introduction

A developer may introduce authorization weaknesses because of a lack of understanding about the underlying technologies. For example, a developer may assume that attackers cannot modify certain inputs such as headers or cookies.

Authorization weaknesses may arise when a single-user application is ported to a multi-user environment.

Common Consequences

Scope	Effect
Confidentiality	An attacker could read sensitive data, either by reading the data directly from a data store that is not properly restricted, or by accessing insufficiently-protected, privileged functionality to read the data.
Integrity	An attacker could modify sensitive data, either by writing the data directly to a data store that is not properly restricted, or by accessing insufficiently-protected, privileged functionality to write the data.
Integrity	An attacker could gain privileges by modifying or reading critical data directly, or by accessing insufficiently-protected, privileged functionality.

Likelihood of Exploit

High

Detection Methods

Automated Static Analysis

Automated static analysis is useful for detecting commonly-used idioms for authorization. A tool may be able to analyze related configuration files, such as .htaccess in Apache web servers, or detect the usage of commonly-used authorization libraries.

Generally, automated static analysis tools have difficulty detecting custom authorization schemes. In addition, the software's design may include some functionality that is accessible to any user and does not require an authorization check; an automated technique that detects the absence of authorization may report false positives.

Effectiveness: Limited

Automated Dynamic Analysis

Automated dynamic analysis may find many or all possible interfaces that do not require authorization, but manual analysis is required to determine if the lack of authorization violates business logic

Manual Analysis

This weakness can be detected using tools and techniques that require manual (human) analysis, such as penetration testing, threat modeling, and interactive tools that allow the tester to record and modify an active session.

Specifically, manual static analysis is useful for evaluating the correctness of custom authorization mechanisms.

Effectiveness: Moderate

These may be more effective than strictly automated techniques. This is especially the case with weaknesses that are related to design and business rules. However, manual efforts might not achieve desired code coverage within limited time constraints.

Demonstrative Examples

Example 1

The following program could be part of a bulletin board system that allows users to send private messages to each other. This program intends to authenticate the user before deciding whether a private message should be displayed. Assume that `LookupMessageObject()` ensures that the `$id` argument is numeric, constructs a filename based on that id, and reads the message details from that file. Also assume that the program stores all private messages for all users in the same directory.

(Bad Code)

Example Language: Perl

```
sub DisplayPrivateMessage {
my($id) = @_ ;
my $Message = LookupMessageObject($id);
print "From: " . encodeHTML($Message->{from}) . "<br>\n";
print "Subject: " . encodeHTML($Message->{subject}) . "\n";
print "<hr>\n";
print "Body: " . encodeHTML($Message->{body}) . "\n";
}

my $q = new CGI;
# For purposes of this example, assume that CWE-309 and
# CWE-523 do not apply.
if (! AuthenticateUser($q->param('username'), $q->param('password'))) {
ExitError("invalid username or password");
}

my $id = $q->param('id');
DisplayPrivateMessage($id);
```

While the program properly exits if authentication fails, it does not ensure that the message is addressed to the user. As a result, an authenticated attacker could provide any arbitrary identifier and read private messages that were intended for other users. One way to avoid this problem would be to ensure that the "to" field in the message object matches the username of the authenticated user.

Observed Examples

Reference	Description
CVE-2009-3168	Web application does not restrict access to admin scripts, allowing authenticated users to reset administrative passwords.

CVE-2009-2960	Web application does not restrict access to admin scripts, allowing authenticated users to modify passwords of other users.
CVE-2009-3597	Web application stores database file under the web root with insufficient access control (CWE-219), allowing direct request.
CVE-2009-2282	Terminal server does not check authorization for guest access.
CVE-2009-3230	Database server does not use appropriate privileges for certain sensitive operations.
CVE-2009-2213	Gateway uses default "Allow" configuration for its authorization settings.
CVE-2009-0034	Chain: product does not properly interpret a configuration option for a system group, allowing users to gain privileges.
CVE-2008-6123	Chain: SNMP product does not properly parse a configuration option for which hosts are allowed to connect, allowing unauthorized IP addresses to connect.
CVE-2008-5027	System monitoring software allows users to bypass authorization by creating custom forms.
CVE-2008-7109	Chain: reliance on client-side security (CWE-602) allows attackers to bypass authorization using a custom client.
CVE-2008-3424	Chain: product does not properly handle wildcards in an authorization policy list, allowing unintended access.
CVE-2009-3781	Content management system does not check access permissions for private files, allowing others to view those files.
CVE-2008-4577	ACL-based protection mechanism treats negative access rights as if they are positive, allowing bypass of intended restrictions.
CVE-2008-6548	Product does not check the ACL of a page accessed using an "include" directive, allowing attackers to read unauthorized files.
CVE-2007-2925	Default ACL list for a DNS server does not set certain ACLs, allowing unauthorized DNS queries.
CVE-2006-6679	Product relies on the X-Forwarded-For HTTP header for authorization, allowing unintended access by spoofing the header.
CVE-2005-3623	OS kernel does not check for a certain privilege before setting ACLs for files.
CVE-2005-2801	Chain: file-system code performs an incorrect comparison (CWE-697), preventing defaults ACLs from being properly applied.
CVE-2001-1155	Chain: product does not properly check the result of a reverse DNS lookup because of operator precedence (CWE-783), allowing bypass of DNS-based access restrictions.

Potential Mitigations

Phase: Architecture and Design

Divide your application into anonymous, normal, privileged, and administrative areas. Reduce the attack surface by carefully mapping roles with data and functionality. Use role-based access control (RBAC) to enforce the roles at the appropriate boundaries.

Note that this approach may not protect against horizontal authorization, i.e., it will not protect a user from attacking others with the same role.

Phase: Architecture and Design

Ensure that you perform access control checks related to your business logic. These checks may be different than the access control checks that you apply to more generic resources such as files, connections, processes, memory, and database records. For example, a database may restrict access for medical records to a specific database user, but each record might only be intended to be accessible to the patient and the patient's doctor.

Phase: Architecture and Design

Strategy: Libraries or Frameworks

Use a vetted library or framework that does not allow this weakness to occur or provides constructs that make this weakness

easier to avoid.

For example, consider using authorization frameworks such as the JAAS Authorization Framework and the OWASP ESAPI Access Control feature.

Phase: Architecture and Design

For web applications, make sure that the access control mechanism is enforced correctly at the server side on every page. Users should not be able to access any unauthorized functionality or information by simply requesting direct access to that page.

One way to do this is to ensure that all pages containing sensitive information are not cached, and that all such pages restrict access to requests that are accompanied by an active and authenticated session token associated with a user who has the required permissions to access that page.

Phases: System Configuration; Installation

Use the access control capabilities of your operating system and server environment and define your access control lists accordingly. Use a "default deny" policy when defining these ACLs.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	254	Security Features	Seven Pernicious Kingdoms (primary)700
ChildOf	Weakness Class	284	Access Control (Authorization) Issues	Development Concepts (primary)699 Research Concepts (primary)1000
ChildOf	Category	721	OWASP Top Ten 2007 Category A10 - Failure to Restrict URL Access	Weaknesses in OWASP Top Ten (2007) (primary)629
ChildOf	Category	723	OWASP Top Ten 2004 Category A2 - Broken Access Control	Weaknesses in OWASP Top Ten (2004) (primary)711
ChildOf	Category	753	2009 Top 25 - Porous Defenses	Weaknesses in the 2009 CWE/SANS Top 25 Most Dangerous Programming Errors (primary)750
ChildOf	Category	803	2010 Top 25 - Porous Defenses	Weaknesses in the 2010 CWE/SANS Top 25 Most Dangerous Programming Errors (primary)800
ParentOf	Weakness Variant	219	Sensitive Data Under Web Root	Research Concepts (primary)1000
ParentOf	Weakness Base	551	Incorrect Behavior Order: Authorization Before Parsing and Canonicalization	Development Concepts (primary)699 Research Concepts1000
ParentOf	Weakness Class	638	Failure to Use Complete Mediation	Research Concepts1000
ParentOf	Weakness Base	804	Guessable CAPTCHA	Development Concepts (primary)699 Research Concepts (primary)1000

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
7 Pernicious Kingdoms			Missing Access Control
OWASP Top Ten 2007	A10	CWE More Specific	Failure to Restrict URL Access
OWASP Top Ten 2004	A2	CWE More Specific	Broken Access Control

Related Attack Patterns

CAPEC-ID	Attack Pattern Name	(CAPEC Version: 1.5)
1	Accessing Functionality Not Properly Constrained by ACLs	
13	Subverting Environment Variable Values	

17	Accessing, Modifying or Executing Executable Files
87	Forceful Browsing
39	Manipulating Opaque Client-based Data Tokens
45	Buffer Overflow via Symbolic Links
51	Poison Web Service Registry
59	Session Credential Falsification through Prediction
60	Reusing Session IDs (aka Session Replay)
77	Manipulating User-Controlled Variables
76	Manipulating Input to File System Calls
104	Cross Zone Scripting

References

NIST. "Role Based Access Control and Role Based Security". <<http://csrc.nist.gov/groups/SNS/rbac/>>.

[REF-11] M. Howard and D. LeBlanc. "Writing Secure Code". Chapter 4, "Authorization" Page 114; Chapter 6, "Determining Appropriate Access Control" Page 171. 2nd Edition. Microsoft. 2002.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	7 Pernicious Kingdoms		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci	Cigital	External
	updated Time of Introduction		
2008-08-15		Veracode	External
	Suggested OWASP Top Ten 2004 mapping		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Relationships, Other Notes, Taxonomy Mappings		
2009-01-12	CWE Content Team	MITRE	Internal
	updated Common Consequences, Description, Likelihood of Exploit, Name, Other Notes, Potential Mitigations, References, Relationships		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Potential Mitigations		
2009-05-27	CWE Content Team	MITRE	Internal
	updated Description, Related Attack Patterns		
2009-07-27	CWE Content Team	MITRE	Internal
	updated Relationships		
2009-10-29	CWE Content Team	MITRE	Internal
	updated Type		
2009-12-28	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Demonstrative Examples, Detection Factors, Modes of Introduction, Observed Examples, Relationships		
2010-02-16	CWE Content Team	MITRE	Internal
	updated Alternate Terms, Detection Factors, Potential Mitigations, References, Relationships		
2010-04-05	CWE Content Team	MITRE	Internal
	updated Potential Mitigations		
Previous Entry Names			
Change Date	Previous Entry Name		
2009-01-12	Missing or Inconsistent Access Control		

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Incorrect Permission Assignment for Critical Resource**Weakness ID:** 732 (*Weakness Class*)**Status:** Draft**Description****Description Summary**

The software specifies permissions for a security-critical resource in a way that allows that resource to be read or modified by unintended actors.

Extended Description

When a resource is given a permissions setting that provides access to a wider range of actors than required, it could lead to the disclosure of sensitive information, or the modification of that resource by unintended parties. This is especially dangerous when the resource is related to program configuration, execution or sensitive user data.

Time of Introduction

- Architecture and Design
- Implementation
- Installation
- Operation

Applicable Platforms**Languages**

Language-independent

Modes of Introduction

The developer may set loose permissions in order to minimize problems when the user first runs the program, then create documentation stating that permissions should be tightened. Since system administrators and users do not always read the documentation, this can result in insecure permissions being left unchanged.

The developer might make certain assumptions about the environment in which the software runs - e.g., that the software is running on a single-user system, or the software is only accessible to trusted administrators. When the software is running in a different environment, the permissions become a problem.

Common Consequences

Scope	Effect
Confidentiality	An attacker may be able to read sensitive information from the associated resource, such as credentials or configuration information stored in a file.
Integrity	An attacker may be able to modify critical properties of the associated resource to gain privileges, such as replacing a world-writable executable with a Trojan horse.
Availability	An attacker may be able to destroy or corrupt critical data in the associated resource, such as deletion of records from a database.

Likelihood of Exploit

Medium to High

Detection Methods**Automated Static Analysis**

Automated static analysis may be effective in detecting permission problems for system resources such as files, directories, shared memory, device interfaces, etc. Automated techniques may be able to detect the use of library functions that modify permissions, then analyze function calls for arguments that contain potentially insecure values.

However, since the software's intended security policy might allow loose permissions for certain operations (such as publishing a file on a web server), automated static analysis may produce some false positives - i.e., warnings that do not have any security consequences or require any code changes.

When custom permissions models are used - such as defining who can read messages in a particular forum in a bulletin board system - these can be difficult to detect using automated static analysis. It may be possible to define custom signatures that

identify any custom functions that implement the permission checks and assignments.

Automated Dynamic Analysis

Automated dynamic analysis may be effective in detecting permission problems for system resources such as files, directories, shared memory, device interfaces, etc.

However, since the software's intended security policy might allow loose permissions for certain operations (such as publishing a file on a web server), automated dynamic analysis may produce some false positives - i.e., warnings that do not have any security consequences or require any code changes.

When custom permissions models are used - such as defining who can read messages in a particular forum in a bulletin board system - these can be difficult to detect using automated dynamic analysis. It may be possible to define custom signatures that identify any custom functions that implement the permission checks and assignments.

Manual Static Analysis

Manual static analysis may be effective in detecting the use of custom permissions models and functions. The code could then be examined to identifying usage of the related functions. Then the human analyst could evaluate permission assignments in the context of the intended security model of the software.

Manual Dynamic Analysis

Manual dynamic analysis may be effective in detecting the use of custom permissions models and functions. The program could then be executed with a focus on exercising code paths that are related to the custom permissions. Then the human analyst could evaluate permission assignments in the context of the intended security model of the software.

Fuzzing

Fuzzing is not effective in detecting this weakness.

Demonstrative Examples

Example 1

The following code sets the umask of the process to 0 before creating a file and writing "Hello world" into the file.

(Bad Code)

Example Language: C

```
#define OUTFILE "hello.out"

umask(0);
FILE *out;
/* Ignore CWE-59 (link following) for brevity */
out = fopen(OUTFILE, "w");
if (out) {
    fprintf(out, "hello world!\n");
    fclose(out);
}
```

After running this program on a UNIX system, running the "ls -l" command might return the following output:

(Result)

```
-rw-rw-rw- 1 username 13 Nov 24 17:58 hello.out
```

The "rw-rw-rw-" string indicates that the owner, group, and world (all users) can read the file and write to it.

Example 2

The following code snippet might be used as a monitor to periodically record whether a web site is alive. To ensure that the file can always be modified, the code uses chmod() to make the file world-writable.

(Bad Code)

Example Language: Perl

```
$fileName = "secretFile.out";

if (-e $fileName) {
    chmod 0777, $fileName;
}
```



```
my $outFH;  
if (! open($outFH, ">>$fileName")) {  
    ExitError("Couldn't append to $fileName: $!");  
}  
my $dateString = FormatCurrentTime();  
my $status = IsHostAlive("cwe.mitre.org");  
print $outFH "$dateString cwe status: $status!\n";  
close($outFH);
```

The first time the program runs, it might create a new file that inherits the permissions from its environment. A file listing might look like:

(Result)

```
-rw-r--r-- 1 username 13 Nov 24 17:58 secretFile.out
```

This listing might occur when the user has a default umask of 022, which is a common setting. Depending on the nature of the file, the user might not have intended to make it readable by everyone on the system.

The next time the program runs, however - and all subsequent executions - the chmod will set the file's permissions so that the owner, group, and world (all users) can read the file and write to it:

(Result)

```
-rw-rw-rw- 1 username 13 Nov 24 17:58 secretFile.out
```

Perhaps the programmer tried to do this because a different process uses different permissions that might prevent the file from being updated.

Example 3

The following command recursively sets world-readable permissions for a directory and all of its children:

(Bad Code)

Example Language: Shell

```
chmod -R ugo+r DIRNAME
```

If this command is run from a program, the person calling the program might not expect that all the files under the directory will be world-readable. If the directory is expected to contain private data, this could become a security problem.

Observed Examples

Reference	Description
CVE-2009-3482	Anti-virus product sets insecure "Everyone: Full Control" permissions for files under the "Program Files" folder, allowing attackers to replace executables with Trojan horses.
CVE-2009-3897	Product creates directories with 0777 permissions at installation, allowing users to gain privileges and access a socket used for authentication.
CVE-2009-3489	Photo editor installs a service with an insecure security descriptor, allowing users to stop or start the service, or execute commands as SYSTEM.
CVE-2009-3289	Library function copies a file to a new target and uses the source file's permissions for the target, which is incorrect when the source file is a symbolic link, which typically has 0777 permissions.
CVE-2009-0115	Device driver uses world-writable permissions for a socket file, allowing attackers to inject arbitrary commands.
CVE-2009-1073	LDAP server stores a cleartext password in a world-readable file.
CVE-2009-0141	Terminal emulator creates TTY devices with world-writable permissions, allowing an attacker to write to the terminals of other users.

CVE-2008-0662	VPN product stores user credentials in a registry key with "Everyone: Full Control" permissions, allowing attackers to steal the credentials.
CVE-2008-0322	Driver installs its device interface with "Everyone: Write" permissions.
CVE-2009-3939	Driver installs a file with world-writable permissions.
CVE-2009-3611	Product changes permissions to 0777 before deleting a backup; the permissions stay insecure for subsequent backups.
CVE-2007-6033	Product creates a share with "Everyone: Full Control" permissions, allowing arbitrary program execution.
CVE-2007-5544	Product uses "Everyone: Full Control" permissions for memory-mapped files (shared memory) in inter-process communication, allowing attackers to tamper with a session.
CVE-2005-4868	Database product uses read/write permissions for everyone for its shared memory, allowing theft of credentials.
CVE-2004-1714	Security product uses "Everyone: Full Control" permissions for its configuration files.
CVE-2001-0006	"Everyone: Full Control" permissions assigned to a mutex allows users to disable network connectivity.
CVE-2002-0969	Chain: database product contains buffer overflow that is only reachable through a .ini configuration file - which has "Everyone: Full Control" permissions.

Potential Mitigations

Phase: Implementation

When using a critical resource such as a configuration file, check to see if the resource has insecure permissions (such as being modifiable by any regular user), and generate an error or even exit the software if there is a possibility that the resource could have been modified by an unauthorized party.

Phase: Architecture and Design

Divide your application into anonymous, normal, privileged, and administrative areas. Reduce the attack surface by carefully defining distinct user groups, privileges, and/or roles. Map these against data, functionality, and the related resources. Then set the permissions accordingly. This will allow you to maintain more fine-grained control over your resources.

Phases: Implementation; Installation

During program startup, explicitly set the default permissions or umask to the most restrictive setting possible. Also set the appropriate permissions during program installation. This will prevent you from inheriting insecure permissions from any user who installs or runs the program.

Phase: System Configuration

For all configuration files, executables, and libraries, make sure that they are only readable and writable by the software's administrator.

Phase: Documentation

Do not suggest insecure configuration changes in your documentation, especially if those configurations can extend to resources and other software that are outside the scope of your own software.

Phase: Installation

Do not assume that the system administrator will manually change the configuration to the settings that you recommend in the manual.

Phase: Testing

Use tools and techniques that require manual (human) analysis, such as penetration testing, threat modeling, and interactive tools that allow the tester to record and modify an active session. These may be more effective than strictly automated techniques. This is especially the case with weaknesses that are related to design and business rules.

Phase: Testing

Use monitoring tools that examine the software's process as it interacts with the operating system and the network. This technique is useful in cases when source code is unavailable, if the software was not developed by you, or if you want to verify that the build phase did not introduce any new weaknesses. Examples include debuggers that directly attach to the running process; system-call tracing utilities such as truss (Solaris) and strace (Linux); system activity monitors such as FileMon, RegMon, Process Monitor, and other Sysinternals utilities (Windows); and sniffers and protocol analyzers that monitor network traffic.

Attach the monitor to the process and watch for library functions or system calls on OS resources such as files, directories, and shared memory. Examine the arguments to these calls to infer which permissions are being used.

Note that this technique is only useful for permissions issues related to system resources. It is not likely to detect application-level business rules that are related to permissions, such as if a user of a blog system marks a post as "private," but the blog system inadvertently marks it as "public."

Phases: Testing; System Configuration

Ensure that your software runs properly under the Federal Desktop Core Configuration (FDCC) or an equivalent hardening configuration guide, which many organizations use to limit the attack surface and potential risk of deployed software.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	275	Permission Issues	Development Concepts (primary)699
ChildOf	Weakness Class	668	Exposure of Resource to Wrong Sphere	Research Concepts (primary)1000
ChildOf	Category	753	2009 Top 25 - Porous Defenses	Weaknesses in the 2009 CWE/SANS Top 25 Most Dangerous Programming Errors (primary)750
ChildOf	Category	803	2010 Top 25 - Porous Defenses	Weaknesses in the 2010 CWE/SANS Top 25 Most Dangerous Programming Errors (primary)800
RequiredBy	Compound Element: Composite	689	Permission Race Condition During Resource Copy	Research Concepts1000
ParentOf	Weakness Variant	276	Incorrect Default Permissions	Research Concepts (primary)1000
ParentOf	Weakness Variant	277	Insecure Inherited Permissions	Research Concepts (primary)1000
ParentOf	Weakness Variant	278	Insecure Preserved Inherited Permissions	Research Concepts (primary)1000
ParentOf	Weakness Variant	279	Incorrect Execution- Assigned Permissions	Research Concepts (primary)1000
ParentOf	Weakness Base	281	Improper Preservation of Permissions	Research Concepts (primary)1000

Related Attack Patterns

CAPEC-ID	Attack Pattern Name	(CAPEC Version: 1.5)
232	Exploitation of Privilege/Trust	
1	Accessing Functionality Not Properly Constrained by ACLs	
17	Accessing, Modifying or Executing Executable Files	
60	Reusing Session IDs (aka Session Replay)	
61	Session Fixation	
62	Cross Site Request Forgery (aka Session Riding)	
122	Exploitation of Authorization	
180	Exploiting Incorrectly Configured Access Control Security Levels	
234	Hijacking a privileged process	

References

Mark Dowd, John McDonald and Justin Schuh. "The Art of Software Security Assessment". Chapter 9, "File Permissions." Page 495.. 1st Edition. Addison Wesley. 2006.

John Viega and Gary McGraw. "Building Secure Software". Chapter 8, "Access Control." Page 194.. 1st Edition. Addison-Wesley. 2002.

Maintenance Notes

The relationships between privileges, permissions, and actors (e.g. users and groups) need further refinement within the Research view. One complication is that these concepts apply to two different pillars, related to control of resources (CWE-664) and protection mechanism failures (CWE-396).

Content History

Submissions			
Submission Date	Submitter	Organization	Source
2008-09-08			Internal CWE Team
	new weakness-focused entry for Research view.		
Modifications			
Modification Date	Modifier	Organization	Source
2009-01-12	CWE Content Team	MITRE	Internal
	updated Description, Likelihood of Exploit, Name, Potential Mitigations, Relationships		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Potential Mitigations, Related Attack Patterns		
2009-05-27	CWE Content Team	MITRE	Internal
	updated Name		
2009-12-28	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Demonstrative Examples, Detection Factors, Modes of Introduction, Observed Examples, Potential Mitigations, References		
2010-02-16	CWE Content Team	MITRE	Internal
	updated Relationships		
2010-04-05	CWE Content Team	MITRE	Internal
	updated Potential Mitigations, Related Attack Patterns		
Previous Entry Names			
Change Date	Previous Entry Name		
2009-01-12	Insecure Permission Assignment for Resource		
2009-05-27	Insecure Permission Assignment for Critical Resource		

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Exposure of System Data to Unauthorized Control Sphere

Risk

What might happen

System data can provide attackers with valuable insights on systems and services they are targeting - any type of system data, from service version to operating system fingerprints, can assist attackers to hone their attack, correlate data with known vulnerabilities or focus efforts on developing new attacks against specific technologies.

Cause

How does it happen

System data is read and subsequently exposed where it might be read by untrusted entities.

General Recommendations

How to avoid it

Consider the implications of exposure of the specified input, and expected level of access to the specified output. If not required, consider removing this code, or modifying exposed information to exclude potentially sensitive system data.

Source Code Examples

Java

Leaking Environment Variables in JSP Web-Page

```
String envVarValue = System.getenv(envVar);
if (envVarValue == null) {
    out.println("Environment variable is not defined:");
    out.println(System.getenv());
} else {
    //[...]
};
```

Privacy Violation

Risk

What might happen

A user's personal information could be stolen by a malicious programmer, or an attacker that intercepts the data.

Cause

How does it happen

The application sends user information, such as passwords, account information, or credit card numbers, outside the application, such as writing it to a local text or log file or sending it to an external web service.

General Recommendations

How to avoid it

1. Personal data should be removed before writing to logs or other files.
 2. Review the need and justification of sending personal data to remote web services.
-

Source Code Examples

CSharp

The user's password is written to the screen

```
class PrivacyViolation
{
    static void foo(string insert_sql)
    {
        string password = "unsafe_password";
        insert_sql = insert_sql.Replace("$password", password);
        System.Console.WriteLine(insert_sql);
    }
}
```

the user's password is MD5 coded before being written to the screen

```
class PrivacyViolationFixed
{
    static void foo(string insert_sql)
    {
```

```
        string password = "unsafe_password";
        MD5 md5Hash = System.Security.Cryptography.MD5.Create();
        byte[] data = md5Hash.ComputeHash(Encoding.UTF8.GetBytes(password));
        StringBuilder md5Password = new StringBuilder();

        for (int i = 0; i < data.Length; i++)
        {
            md5Password.Append(data[i].ToString("x2"));
        }
        insert_sql = insert_sql.Replace("$password", md5Password.ToString());
        System.Console.WriteLine(insert_sql);
    }
}
```

Unchecked Return Value

Risk

What might happen

A program that does not check function return values could cause the application to enter an undefined state. This could lead to unexpected behavior and unintended consequences, including inconsistent data, system crashes or other error-based exploits.

Cause

How does it happen

The application calls a system function, but does not receive or check the result of this function. These functions often return error codes in the result, or share other status codes with its caller. The application simply ignores this result value, losing this vital information.

General Recommendations

How to avoid it

- Always check the result of any called function that returns a value, and verify the result is an expected value.
 - Ensure the calling function responds to all possible return values.
 - Expect runtime errors and handle them gracefully. Explicitly define a mechanism for handling unexpected errors.
-

Source Code Examples

CPP

Unchecked Memory Allocation

```
buff = (char*) malloc(size);
strncpy(buff, source, size);
```

Safer Memory Allocation

```
buff = (char*) malloc(size+1);
if (buff==NULL) exit(1);

strncpy(buff, source, size);
buff[size] = '\0';
```


Use of sizeof() on a Pointer Type

Weakness ID: 467 (*Weakness Variant*)

Status: Draft

Description

Description Summary

The code calls sizeof() on a malloced pointer type, which always returns the wordsize/8. This can produce an unexpected result if the programmer intended to determine how much memory has been allocated.

Time of Introduction

Implementation

Applicable Platforms

Languages

C

C++

Common Consequences

Scope	Effect
Integrity	This error can often cause one to allocate a buffer that is much smaller than what is needed, leading to resultant weaknesses such as buffer overflows.

Likelihood of Exploit

High

Demonstrative Examples

Example 1

Care should be taken to ensure sizeof returns the size of the data structure itself, and not the size of the pointer to the data structure.

In this example, sizeof(foo) returns the size of the pointer.

(Bad Code)

Example Languages: C and C++

```
double *foo;
...
foo = (double *)malloc(sizeof(foo));
```

In this example, sizeof(*foo) returns the size of the data structure and not the size of the pointer.

(Good Code)

Example Languages: C and C++

```
double *foo;
...
foo = (double *)malloc(sizeof(*foo));
```

Example 2

This example defines a fixed username and password. The AuthenticateUser() function is intended to accept a username and a password from an untrusted user, and check to ensure that it matches the username and password. If the username and password match, AuthenticateUser() is intended to indicate that authentication succeeded.

(Bad Code)

/ Ignore CWE-259 (hard-coded password) and CWE-309 (use of password system for authentication) for this example. */*

```
char *username = "admin";
char *pass = "password";

int AuthenticateUser(char *inUser, char *inPass) {
```

```
printf("Sizeof username = %d\n", sizeof(username));
printf("Sizeof pass = %d\n", sizeof(pass));

if (strcmp(username, inUser, sizeof(username))) {
printf("Auth failure of username using sizeof\n");
return(AUTH_FAIL);
}
/* Because of CWE-467, the sizeof returns 4 on many platforms and architectures. */
if (! strcmp(pass, inPass, sizeof(pass))) {
printf("Auth success of password using sizeof\n");
return(AUTH_SUCCESS);
}
else {
printf("Auth fail of password using sizeof\n");
return(AUTH_FAIL);
}
}

int main (int argc, char **argv)
{
int authResult;

if (argc < 3) {
ExitError("Usage: Provide a username and password");
}
authResult = AuthenticateUser(argv[1], argv[2]);
if (authResult != AUTH_SUCCESS) {
ExitError("Authentication failed");
}
else {
DoAuthenticatedTask(argv[1]);
}
}
```

In `AuthenticateUser()`, because `sizeof()` is applied to a parameter with an array type, the `sizeof()` call might return 4 on many modern architectures. As a result, the `strcmp()` call only checks the first four characters of the input password, resulting in a partial comparison (CWE-187), leading to improper authentication (CWE-287).

Because of the partial comparison, any of these passwords would still cause authentication to succeed for the "admin" user:

(Attack)

```
pass5
passABCDEFGH
passWORD
```

Because only 4 characters are checked, this significantly reduces the search space for an attacker, making brute force attacks more feasible.

The same problem also applies to the username, so values such as "adminXYZ" and "administrator" will succeed for the username.

Potential Mitigations

Phase: Implementation

Use expressions such as "`sizeof(*pointer)`" instead of "`sizeof(pointer)`", unless you intend to run `sizeof()` on a pointer type to gain some platform independence or if you are allocating a variable on the stack.

Other Notes

The use of `sizeof()` on a pointer can sometimes generate useful information. An obvious case is to find out the wordsize on a platform. More often than not, the appearance of `sizeof(pointer)` indicates a bug.

Weakness Ordinalities

Ordinality	Description
Primary	<i>(where the weakness exists independent of other weaknesses)</i>

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	465	Pointer Issues	Development Concepts (primary)699
ChildOf	Weakness Class	682	Incorrect Calculation	Research Concepts (primary)1000
ChildOf	Category	737	CERT C Secure Coding Section 03 - Expressions (EXP)	Weaknesses Addressed by the CERT C Secure Coding Standard (primary)734
ChildOf	Category	740	CERT C Secure Coding Section 06 - Arrays (ARR)	Weaknesses Addressed by the CERT C Secure Coding Standard734
CanPrecede	Weakness Base	131	Incorrect Calculation of Buffer Size	Research Concepts1000

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
CLASP			Use of sizeof() on a pointer type
CERT C Secure Coding	ARR01-C		Do not apply the sizeof operator to a pointer when taking the size of an array
CERT C Secure Coding	EXP01-C		Do not take the size of a pointer to determine the size of the pointed-to type

White Box Definitions

A weakness where code path has:

1. end statement that passes an identity of a dynamically allocated memory resource to a sizeof operator
2. start statement that allocates the dynamically allocated memory resource

References

Robert Seacord. "EXP01-A. Do not take the sizeof a pointer to determine the size of a type".
<https://www.securecoding.cert.org/confluence/display/seccode/EXP01-A.+Do+not+take+the+sizeof+a+pointer+to+determine+the+size+of+a+type>.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	CLASP		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci	Cigital	External
	updated Time of Introduction		
2008-08-01		KDM Analytics	External
	added/updated white box definitions		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Relationships, Other Notes, Taxonomy Mappings, Weakness Ordinalities		
2008-11-24	CWE Content Team	MITRE	Internal
	updated Relationships, Taxonomy Mappings		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Demonstrative Examples		
2009-12-28	CWE Content Team	MITRE	Internal
	updated Demonstrative Examples		
2010-02-16	CWE Content Team	MITRE	Internal
	updated Relationships		

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Reliance on DNS Lookups in a Decision

Risk

What might happen

Relying on reverse DNS records, without verifying domain ownership via cryptographic certificates or protocols, is not a sufficient authentication mechanism. Basing any security decisions on the registered hostname could allow an external attacker to control the application flow. The attacker could possibly perform restricted operations, bypass access controls, and even spoof the user's identity, inject a bogus hostname into the security log, and possibly other logic attacks.

Cause

How does it happen

The application performs a reverse DNS resolution, based on the remote IP address, and performs a security check based on the returned hostname. However, it is relatively easy to spoof DNS names, or cause them to be misreported, depending on the context of the specific environment. If the remote server is controlled by the attacker, it can be configured to report a bogus hostname. Additionally, the attacker could also spoof the hostname if she controls the associated DNS server, or by attacking the legitimate DNS server, or by poisoning the server's DNS cache, or by modifying unprotected DNS traffic to the server. Regardless of the vector, a remote attacker can alter the detected network address, faking the authentication details.

General Recommendations

How to avoid it

- Do not rely on DNS records, network addresses, or system hostnames as a form of authentication, or any other security-related decision.
 - Do not perform reverse DNS resolution over an unprotected protocol without record validation.
 - Implement a proper authentication mechanism, such as passwords, cryptographic certificates, or public key digital signatures.
 - Consider using proposed protocol extensions to cryptographically protect DNS, e.g. DNSSEC (though note the limited support and other drawbacks).
-

Source Code Examples

Java

Using Reverse DNS as Authentication

```
private boolean isInternalEmployee(ServletRequest req) {  
    boolean isCompany = false;  
  
    String ip = req.getRemoteAddr();  
    InetAddress address = InetAddress.getByName(ip);  
  
    if (address.getHostName().endsWith(COMPANYNAME)) {  
        isCompany = true;  
    }  
    return isCompany;  
}
```

```
}
```

Verify Authenticated User's Identity

```
private boolean isInternalEmployee(HttpServletRequest req) {  
    boolean isCompany = false;  
  
    Principal user = req.getUserPrincipal();  
    if (user != null) {  
        if (user.getName().startsWith(COMPANYDOMAIN + "\\\")) {  
            isCompany = true;  
        }  
    }  
    return isCompany;  
}
```

NULL Pointer Dereference

Risk

What might happen

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

Cause

How does it happen

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

General Recommendations

How to avoid it

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

Source Code Examples

Use of Obsolete Functions

Risk

What might happen

Referencing deprecated modules can cause an application to be exposed to known vulnerabilities, that have been publicly reported and already fixed. A common attack technique is to scan applications for these known vulnerabilities, and then exploit the application through these deprecated versions.

Note that the actual risk involved depends on the specifics of any known vulnerabilities in older versions.

Cause

How does it happen

The application references code elements that have been declared as deprecated. This could include classes, functions, methods, properties, modules, or obsolete library versions that are either out of date by version, or have been entirely deprecated. It is likely that the code that references the obsolete element was developed before it was declared as obsolete, and in the meantime the referenced code was updated.

General Recommendations

How to avoid it

- Always prefer to use the most updated versions of libraries, packages, and other dependencies.
 - Do not use or reference any class, method, function, property, or other element that has been declared deprecated.
-

Source Code Examples

Java

Using Deprecated Methods for Security Checks

```
private void checkPermissions(InetAddress address) {  
  
    SecurityManager secManager = System.getSecurityManager();  
  
    if (secManager != null) {  
        secManager.checkMulticast(address, 0)  
    }  
  
}
```

A Replacement Security Check

```
private void checkPermissions(InetAddress address) {  
  
    SecurityManager secManager = System.getSecurityManager();  
  
    if (secManager != null) {  
        SocketPermission permission = new SocketPermission(address.getHostAddress(),  
"accept,connect");  
  
        secManager.checkPermission(permission)  
    }  
  
}
```

}

Insecure Temporary File

Weakness ID: 377 (*Weakness Base*)

Status: Incomplete

Description

Description Summary

Creating and using insecure temporary files can leave application and system data vulnerable to attack.

Time of Introduction

- Architecture and Design
- Implementation

Applicable Platforms

Languages

All

Demonstrative Examples

Example 1

The following code uses a temporary file for storing intermediate data gathered from the network before it is processed.

(Bad Code)

Example Language: C

```
if(tmpnam_r(filename)) {  
  
FILE* tmp = fopen(filename,"wb+");  
while((recv(sock,recvbuf,DATA_SIZE, 0) > 0)&(amt!=0)) amt = fwrite(recvbuf,1,DATA_SIZE,tmp);  
}  
...
```

This otherwise unremarkable code is vulnerable to a number of different attacks because it relies on an insecure method for creating temporary files. The vulnerabilities introduced by this function and others are described in the following sections. The most egregious security problems related to temporary file creation have occurred on Unix-based operating systems, but Windows applications have parallel risks. This section includes a discussion of temporary file creation on both Unix and Windows systems. Methods and behaviors can vary between systems, but the fundamental risks introduced by each are reasonably constant.

Other Notes

Applications require temporary files so frequently that many different mechanisms exist for creating them in the C Library and Windows(R) API. Most of these functions are vulnerable to various forms of attacks.

The functions designed to aid in the creation of temporary files can be broken into two groups based whether they simply provide a filename or actually open a new file. - Group 1: "Unique" Filenames: The first group of C Library and WinAPI functions designed to help with the process of creating temporary files do so by generating a unique file name for a new temporary file, which the program is then supposed to open. This group includes C Library functions like tmpnam(), tmpnam(), mktemp() and their C++ equivalents prefaced with an _ (underscore) as well as the GetTempFileName() function from the Windows API. This group of functions suffers from an underlying race condition on the filename chosen. Although the functions guarantee that the filename is unique at the time it is selected, there is no mechanism to prevent another process or an attacker from creating a file with the same name after it is selected but before the application attempts to open the file. Beyond the risk of a legitimate collision caused by another call to the same function, there is a high probability that an attacker will be able to create a malicious collision because the filenames generated by these functions are not sufficiently randomized to make them difficult to guess. If a file with the selected name is created, then depending on how the file is opened the existing contents or access permissions of the file may remain intact. If the existing contents of the file are malicious in nature, an attacker may be able to inject dangerous data into the application when it reads data back from the temporary file. If an attacker pre-creates the file with relaxed access permissions, then data stored in the temporary file by the application may be accessed, modified or corrupted by an attacker. On Unix based systems an even more insidious attack is possible if the attacker pre-creates the file as a link to another important file. Then, if the application truncates or writes data to the file, it may unwittingly perform damaging operations for the attacker. This is an especially serious threat if the program operates with elevated permissions. Finally, in the best case the file will be opened with the a call to open() using the O_CREAT and O_EXCL flags or to CreateFile() using the CREATE_NEW attribute, which will fail if the file already exists and therefore prevent the types of attacks described above. However, if an attacker is able to accurately predict a sequence of temporary file names, then the application may be prevented from opening necessary temporary storage causing a denial of service (DoS) attack. This type of attack would not be difficult to mount given the small amount of randomness used in

the selection of the filenames generated by these functions. - Group 2: "Unique" Files: The second group of C Library functions attempts to resolve some of the security problems related to temporary files by not only generating a unique file name, but also opening the file. This group includes C Library functions like `tmpfile()` and its C++ equivalents prefaced with an `_` (underscore), as well as the slightly better-behaved C Library function `mkstemp()`. The `tmpfile()` style functions construct a unique filename and open it in the same way that `fopen()` would if passed the flags "wb+", that is, as a binary file in read/write mode. If the file already exists, `tmpfile()` will truncate it to size zero, possibly in an attempt to assuage the security concerns mentioned earlier regarding the race condition that exists between the selection of a supposedly unique filename and the subsequent opening of the selected file. However, this behavior clearly does not solve the function's security problems. First, an attacker can pre-create the file with relaxed access-permissions that will likely be retained by the file opened by `tmpfile()`. Furthermore, on Unix based systems if the attacker pre-creates the file as a link to another important file, the application may use its possibly elevated permissions to truncate that file, thereby doing damage on behalf of the attacker. Finally, if `tmpfile()` does create a new file, the access permissions applied to that file will vary from one operating system to another, which can leave application data vulnerable even if an attacker is unable to predict the filename to be used in advance. Finally, `mkstemp()` is a reasonably safe way create temporary files. It will attempt to create and open a unique file based on a filename template provided by the user combined with a series of randomly generated characters. If it is unable to create such a file, it will fail and return -1. On modern systems the file is opened using mode 0600, which means the file will be secure from tampering unless the user explicitly changes its access permissions. However, `mkstemp()` still suffers from the use of predictable file names and can leave an application vulnerable to denial of service attacks if an attacker causes `mkstemp()` to fail by predicting and pre-creating the filenames to be used.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	361	Time and State	Seven Pernicious Kingdoms (primary)700
ChildOf	Category	376	Temporary File Issues	Development Concepts (primary)699
ChildOf	Weakness Class	668	Exposure of Resource to Wrong Sphere	Research Concepts (primary)1000
ParentOf	Weakness Base	378	Creation of Temporary File With Insecure Permissions	Research Concepts (primary)1000
ParentOf	Weakness Base	379	Creation of Temporary File in Directory with Incorrect Permissions	Research Concepts (primary)1000

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
7 Pernicious Kingdoms			Insecure Temporary File

References

[REF-11] M. Howard and D. LeBlanc. "Writing Secure Code". Chapter 23, "Creating Temporary Files Securely" Page 682. 2nd Edition. Microsoft. 2002.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	7 Pernicious Kingdoms		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Eric Dalci updated Time of Introduction	Cigital	External
2008-09-08	CWE Content Team updated Relationships, Other Notes, Taxonomy Mappings	MITRE	Internal
2009-03-10	CWE Content Team updated Demonstrative Examples	MITRE	Internal
2009-05-27	CWE Content Team updated Demonstrative Examples	MITRE	Internal
2010-02-16	CWE Content Team updated References	MITRE	Internal

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Use of sizeof() on a Pointer Type

Weakness ID: 467 (*Weakness Variant*)

Status: Draft

Description

Description Summary

The code calls sizeof() on a malloced pointer type, which always returns the wordsize/8. This can produce an unexpected result if the programmer intended to determine how much memory has been allocated.

Time of Introduction

Implementation

Applicable Platforms

Languages

C

C++

Common Consequences

Scope	Effect
Integrity	This error can often cause one to allocate a buffer that is much smaller than what is needed, leading to resultant weaknesses such as buffer overflows.

Likelihood of Exploit

High

Demonstrative Examples

Example 1

Care should be taken to ensure sizeof returns the size of the data structure itself, and not the size of the pointer to the data structure.

In this example, sizeof(foo) returns the size of the pointer.

(Bad Code)

Example Languages: C and C++

```
double *foo;
...
foo = (double *)malloc(sizeof(foo));
```

In this example, sizeof(*foo) returns the size of the data structure and not the size of the pointer.

(Good Code)

Example Languages: C and C++

```
double *foo;
...
foo = (double *)malloc(sizeof(*foo));
```

Example 2

This example defines a fixed username and password. The AuthenticateUser() function is intended to accept a username and a password from an untrusted user, and check to ensure that it matches the username and password. If the username and password match, AuthenticateUser() is intended to indicate that authentication succeeded.

(Bad Code)

/ Ignore CWE-259 (hard-coded password) and CWE-309 (use of password system for authentication) for this example. */*

```
char *username = "admin";
char *pass = "password";

int AuthenticateUser(char *inUser, char *inPass) {
```

```
printf("Sizeof username = %d\n", sizeof(username));
printf("Sizeof pass = %d\n", sizeof(pass));

if (strcmp(username, inUser, sizeof(username))) {
printf("Auth failure of username using sizeof\n");
return(AUTH_FAIL);
}
/* Because of CWE-467, the sizeof returns 4 on many platforms and architectures. */
if (! strcmp(pass, inPass, sizeof(pass))) {
printf("Auth success of password using sizeof\n");
return(AUTH_SUCCESS);
}
else {
printf("Auth fail of password using sizeof\n");
return(AUTH_FAIL);
}
}

int main (int argc, char **argv)
{
int authResult;

if (argc < 3) {
ExitError("Usage: Provide a username and password");
}
authResult = AuthenticateUser(argv[1], argv[2]);
if (authResult != AUTH_SUCCESS) {
ExitError("Authentication failed");
}
else {
DoAuthenticatedTask(argv[1]);
}
}
```

In `AuthenticateUser()`, because `sizeof()` is applied to a parameter with an array type, the `sizeof()` call might return 4 on many modern architectures. As a result, the `strcmp()` call only checks the first four characters of the input password, resulting in a partial comparison (CWE-187), leading to improper authentication (CWE-287).

Because of the partial comparison, any of these passwords would still cause authentication to succeed for the "admin" user:

(Attack)

```
pass5
passABCDEFGH
passWORD
```

Because only 4 characters are checked, this significantly reduces the search space for an attacker, making brute force attacks more feasible.

The same problem also applies to the username, so values such as "adminXYZ" and "administrator" will succeed for the username.

Potential Mitigations

Phase: Implementation

Use expressions such as "`sizeof(*pointer)`" instead of "`sizeof(pointer)`", unless you intend to run `sizeof()` on a pointer type to gain some platform independence or if you are allocating a variable on the stack.

Other Notes

The use of `sizeof()` on a pointer can sometimes generate useful information. An obvious case is to find out the wordsize on a platform. More often than not, the appearance of `sizeof(pointer)` indicates a bug.

Weakness Ordinalities

Ordinality	Description
Primary	(where the weakness exists independent of other weaknesses)

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Category	465	Pointer Issues	Development Concepts (primary)699
ChildOf	Weakness Class	682	Incorrect Calculation	Research Concepts (primary)1000
ChildOf	Category	737	CERT C Secure Coding Section 03 - Expressions (EXP)	Weaknesses Addressed by the CERT C Secure Coding Standard (primary)734
ChildOf	Category	740	CERT C Secure Coding Section 06 - Arrays (ARR)	Weaknesses Addressed by the CERT C Secure Coding Standard734
CanPrecede	Weakness Base	131	Incorrect Calculation of Buffer Size	Research Concepts1000

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
CLASP			Use of sizeof() on a pointer type
CERT C Secure Coding	ARR01-C		Do not apply the sizeof operator to a pointer when taking the size of an array
CERT C Secure Coding	EXP01-C		Do not take the size of a pointer to determine the size of the pointed-to type

White Box Definitions

A weakness where code path has:

1. end statement that passes an identity of a dynamically allocated memory resource to a sizeof operator
2. start statement that allocates the dynamically allocated memory resource

References

Robert Seacord. "EXP01-A. Do not take the sizeof a pointer to determine the size of a type".
<https://www.securecoding.cert.org/confluence/display/seccode/EXP01-A.+Do+not+take+the+sizeof+a+pointer+to+determine+the+size+of+a+type>.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	CLASP		Externally Mined
Modifications			
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2008-07-01	Eric Dalci	Cigital	External
	updated Time of Introduction		
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2008-11-24	CWE Content Team	MITRE	Internal
	updated Relationships, Taxonomy Mappings		
2009-03-10	CWE Content Team	MITRE	Internal
	updated Demonstrative Examples		
2009-12-28	CWE Content Team	MITRE	Internal
	updated Demonstrative Examples		
2010-02-16	CWE Content Team	MITRE	Internal
	updated Relationships		

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Improper Validation of Array Index

Weakness ID: 129 (*Weakness Base*)

Status: Draft

Description

Description Summary

The product uses untrusted input when calculating or using an array index, but the product does not validate or incorrectly validates the index to ensure the index references a valid position within the array.

Alternate Terms

out-of-bounds array index

index-out-of-range

array index underflow

Time of Introduction

Implementation

Applicable Platforms

Languages

C: (*Often*)

C++: (*Often*)

Language-independent

Common Consequences

Scope	Effect
Integrity Availability	Unchecked array indexing will very likely result in the corruption of relevant memory and perhaps instructions, leading to a crash, if the values are outside of the valid memory area.
Integrity	If the memory corrupted is data, rather than instructions, the system will continue to function with improper values.
Confidentiality Integrity	Unchecked array indexing can also trigger out-of-bounds read or write operations, or operations on the wrong objects; i.e., "buffer overflows" are not always the result. This may result in the exposure or modification of sensitive data.
Integrity	If the memory accessible by the attacker can be effectively controlled, it may be possible to execute arbitrary code, as with a standard buffer overflow and possibly without the use of large inputs if a precise index can be controlled.
Integrity Availability Confidentiality	A single fault could allow either an overflow (CWE-788) or underflow (CWE-786) of the array index. What happens next will depend on the type of operation being performed out of bounds, but can expose sensitive information, cause a system crash, or possibly lead to arbitrary code execution.

Likelihood of Exploit

High

Detection Methods

Automated Static Analysis

This weakness can often be detected using automated static analysis tools. Many modern tools use data flow analysis or constraint-based techniques to minimize the number of false positives.

Automated static analysis generally does not account for environmental considerations when reporting out-of-bounds memory operations. This can make it difficult for users to determine which warnings should be investigated first. For example, an analysis tool might report array index errors that originate from command line arguments in a program that is not expected to run with setuid or other special privileges.

Effectiveness: High

This is not a perfect solution, since 100% accuracy and coverage are not feasible.

Automated Dynamic Analysis

This weakness can be detected using dynamic tools and techniques that interact with the software using large test suites with many diverse inputs, such as fuzz testing (fuzzing), robustness testing, and fault injection. The software's operation may slow down, but it should not become unstable, crash, or generate incorrect results.

Black Box

Black box methods might not get the needed code coverage within limited time constraints, and a dynamic test might not produce any noticeable side effects even if it is successful.

Demonstrative Examples

Example 1

The following C/C++ example retrieves the sizes of messages for a pop3 mail server. The message sizes are retrieved from a socket that returns in a buffer the message number and the message size, the message number (num) and size (size) are extracted from the buffer and the message size is placed into an array using the message number for the array index.

(Bad Code)

Example Language: C

```
/* capture the sizes of all messages */
int getsizes(int sock, int count, int *sizes) {
    ...
    char buf[BUFFER_SIZE];
    int ok;
    int num, size;

    // read values from socket and added to sizes array
    while ((ok = gen_recv(sock, buf, sizeof(buf))) == 0)
    {

        // continue read from socket until buf only contains '.'
        if (DOTLINE(buf))
            break;
        else if (sscanf(buf, "%d %d", &num, &size) == 2)
            sizes[num - 1] = size;
    }
    ...
}
```

In this example the message number retrieved from the buffer could be a value that is outside the allowable range of indices for the array and could possibly be a negative number. Without proper validation of the value to be used for the array index an array overflow could occur and could potentially lead to unauthorized access to memory addresses and system crashes. The value of the array index should be validated to ensure that it is within the allowable range of indices for the array as in the following code.

(Good Code)

Example Language: C

```
/* capture the sizes of all messages */
int getsizes(int sock, int count, int *sizes) {
    ...
    char buf[BUFFER_SIZE];
    int ok;
    int num, size;

    // read values from socket and added to sizes array
    while ((ok = gen_recv(sock, buf, sizeof(buf))) == 0)
    {

        // continue read from socket until buf only contains '.'
        if (DOTLINE(buf))
```

```
break;
else if (sscanf(buf, "%d %d", &num, &size) == 2) {
if (num > 0 && num <= (unsigned)count)
sizes[num - 1] = size;
else
/* warn about possible attempt to induce buffer overflow */
report(stderr, "Warning: ignoring bogus data for message sizes returned by server.\n");
}
}
...
}
```

Example 2

In the code snippet below, an unchecked integer value is used to reference an object in an array.

(Bad Code)

Example Language: Java

```
public String getValue(int index) {
return array[index];
}
```

If index is outside of the range of the array, this may result in an `ArrayIndexOutOfBoundsException` Exception being raised.

Example 3

In the following Java example the method `displayProductSummary` is called from a Web service servlet to retrieve product summary information for display to the user. The servlet obtains the integer value of the product number from the user and passes it to the `displayProductSummary` method. The `displayProductSummary` method passes the integer value of the product number to the `getProductSummary` method which obtains the product summary from the array object containing the project summaries using the integer value of the product number as the array index.

(Bad Code)

Example Language: Java

// Method called from servlet to obtain product information

```
public String displayProductSummary(int index) {

String productSummary = new String("");

try {
String productSummary = getProductSummary(index);

} catch (Exception ex) {...}

return productSummary;
}

public String getProductSummary(int index) {
return products[index];
}
```

In this example the integer value used as the array index that is provided by the user may be outside the allowable range of indices for the array which may provide unexpected results or may cause the application to fail. The integer value used for the array index should be validated to ensure that it is within the allowable range of indices for the array as in the following code.

(Good Code)

Example Language: Java

// Method called from servlet to obtain product information

```
public String displayProductSummary(int index) {

String productSummary = new String("");
```



```
try {
String productSummary = getProductSummary(index);

} catch (Exception ex) {...}

return productSummary;
}

public String getProductSummary(int index) {
String productSummary = "";

if ((index >= 0) && (index < MAX_PRODUCTS)) {
productSummary = products[index];
}
else {
System.err.println("index is out of bounds");
throw new IndexOutOfBoundsException();
}

return productSummary;
}
```

An alternative in Java would be to use one of the collection objects such as `ArrayList` that will automatically generate an exception if an attempt is made to access an array index that is out of bounds.

(Good Code)

Example Language: Java

```
ArrayList productArray = new ArrayList(MAX_PRODUCTS);
...
try {
productSummary = (String) productArray.get(index);
} catch (IndexOutOfBoundsException ex) {...}
```

Observed Examples

Reference	Description
CVE-2005-0369	large ID in packet used as array index
CVE-2001-1009	negative array index as argument to POP LIST command
CVE-2003-0721	Integer signedness error leads to negative array index
CVE-2004-1189	product does not properly track a count and a maximum number, which can lead to resultant array index overflow.
CVE-2007-5756	chain: device driver for packet-capturing software allows access to an unintended IOCTL with resultant array index error.

Potential Mitigations

Phase: Architecture and Design

Strategies: Input Validation; Libraries or Frameworks

Use an input validation framework such as Struts or the OWASP ESAPI Validation API. If you use Struts, be mindful of weaknesses covered by the CWE-101 category.

Phase: Architecture and Design

For any security checks that are performed on the client side, ensure that these checks are duplicated on the server side, in order to avoid CWE-602. Attackers can bypass the client-side checks by modifying values after the checks have been performed, or by changing the client to remove the client-side checks entirely. Then, these modified values would be submitted to the server.

Even though client-side checks provide minimal benefits with respect to server-side security, they are still useful. First, they can support intrusion detection. If the server receives input that should have been rejected by the client, then it may be an indication of an attack. Second, client-side error-checking can provide helpful feedback to the user about the expectations for valid input. Third, there may be a reduction in server-side processing time for accidental input errors, although this is typically a small savings.

Phase: Requirements

Strategy: Language Selection

Use a language with features that can automatically mitigate or eliminate out-of-bounds indexing errors.

For example, Ada allows the programmer to constrain the values of a variable and languages such as Java and Ruby will allow the programmer to handle exceptions when an out-of-bounds index is accessed.

Phase: Implementation

Strategy: Input Validation

Assume all input is malicious. Use an "accept known good" input validation strategy (i.e., use a whitelist). Reject any input that does not strictly conform to specifications, or transform it into something that does. Use a blacklist to reject any unexpected inputs and detect potential attacks.

When accessing a user-controlled array index, use a stringent range of values that are within the target array. Make sure that you do not allow negative values to be used. That is, verify the minimum as well as the maximum of the range of acceptable values.

Phase: Implementation

Be especially careful to validate your input when you invoke code that crosses language boundaries, such as from an interpreted language to native code. This could create an unexpected interaction between the language boundaries. Ensure that you are not violating any of the expectations of the language with which you are interfacing. For example, even though Java may not be susceptible to buffer overflows, providing a large argument in a call to native code might trigger an overflow.

Weakness Ordinalities

Ordinality	Description
Resultant	The most common condition situation leading to unchecked array indexing is the use of loop index variables as buffer indexes. If the end condition for the loop is subject to a flaw, the index can grow or shrink unbounded, therefore causing a buffer overflow or underflow. Another common situation leading to this condition is the use of a function's return value, or the resulting value of a calculation directly as an index in to a buffer.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Class	20	Improper Input Validation	Development Concepts (primary)699 Research Concepts (primary)1000
ChildOf	Category	189	Numeric Errors	Development Concepts699
ChildOf	Category	633	Weaknesses that Affect Memory	Resource-specific Weaknesses (primary)631
ChildOf	Category	738	CERT C Secure Coding Section 04 - Integers (INT)	Weaknesses Addressed by the CERT C Secure Coding Standard (primary)734
ChildOf	Category	740	CERT C Secure Coding Section 06 - Arrays (ARR)	Weaknesses Addressed by the CERT C Secure Coding Standard734
ChildOf	Category	802	2010 Top 25 - Risky Resource Management	Weaknesses in the 2010 CWE/SANS Top 25 Most Dangerous Programming Errors (primary)800
CanPrecede	Weakness Class	119	Failure to Constrain Operations within the Bounds of a Memory Buffer	Research Concepts1000
CanPrecede	Weakness Variant	789	Uncontrolled Memory Allocation	Research Concepts1000
PeerOf	Weakness Base	124	Buffer Underwrite ('Buffer Underflow')	Research Concepts1000

Theoretical Notes

An improperly validated array index might lead directly to the always-incorrect behavior of "access of array using out-of-bounds index."

Affected Resources

Memory

f Causal Nature

Explicit

Taxonomy Mappings

Mapped Taxonomy Name	Node ID	Fit	Mapped Node Name
CLASP			Unchecked array indexing
PLOVER			INDEX - Array index overflow
CERT C Secure Coding	ARR00-C		Understand how arrays work
CERT C Secure Coding	ARR30-C		Guarantee that array indices are within the valid range
CERT C Secure Coding	ARR38-C		Do not add or subtract an integer to a pointer if the resulting value does not refer to a valid array element
CERT C Secure Coding	INT32-C		Ensure that operations on signed integers do not result in overflow

Related Attack Patterns

CAPEC-ID	Attack Pattern Name	(CAPEC Version: 1.5)
100	Overflow Buffers	

References

[REF-11] M. Howard and D. LeBlanc. "Writing Secure Code". Chapter 5, "Array Indexing Errors" Page 144. 2nd Edition. Microsoft. 2002.

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	CLASP		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Sean Eidemiller	Cigital	External
	added/updated demonstrative examples		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Alternate Terms, Applicable Platforms, Common Consequences, Relationships, Other Notes, Taxonomy Mappings, Weakness Ordinalities		
2008-11-24	CWE Content Team	MITRE	Internal
	updated Relationships, Taxonomy Mappings		
2009-01-12	CWE Content Team	MITRE	Internal
	updated Common Consequences		
2009-10-29	CWE Content Team	MITRE	Internal
	updated Description, Name, Relationships		
2009-12-28	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Common Consequences, Observed Examples, Other Notes, Potential Mitigations, Theoretical Notes, Weakness Ordinalities		
2010-02-16	CWE Content Team	MITRE	Internal
	updated Applicable Platforms, Demonstrative Examples, Detection Factors, Likelihood of Exploit, Potential Mitigations, References, Related Attack Patterns, Relationships		
2010-04-05	CWE Content Team	MITRE	Internal
	updated Related Attack Patterns		
Previous Entry Names			
Change Date	Previous Entry Name		
2009-10-29	Unchecked Array Indexing		

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Risk

What might happen

At best, a Race Condition may cause errors in accuracy, overridden values or unexpected behavior that may result in denial-of-service. At worst, it may allow attackers to retrieve data or bypass security processes by replaying a controllable Race Condition until it plays out in their favor.

Cause

How does it happen

Race Conditions occur when a public, single instance of a resource is used by multiple concurrent logical processes. If these logical processes attempt to retrieve and update the resource without a timely management system, such as a lock, a Race Condition will occur.

An example for when a Race Condition occurs is a resource that may return a certain value to a process for further editing, and then updated by a second process, resulting in the original process' data no longer being valid. Once the original process edits and updates the incorrect value back into the resource, the second process' update has been overwritten and lost.

General Recommendations

How to avoid it

When sharing resources between concurrent processes across the application ensure that these resources are either thread-safe, or implement a locking mechanism to ensure expected concurrent activity.

Source Code Examples

Java

Different Threads Increment and Decrement The Same Counter Repeatedly, Resulting in a Race Condition

```
public static int counter = 0;
public static void start() throws InterruptedException {
    incrementCounter ic;
    decrementCounter dc;
    while(counter == 0) {
        counter = 0;
        ic = new incrementCounter();
        dc = new decrementCounter();
        ic.start();
        dc.start();
        ic.join();
        dc.join();
    }
    System.out.println(counter); //Will stop and return either -1 or 1 due to race
    condition over counter
}

public static class incrementCounter extends Thread {
    public void run() {
        counter++;
    }
}
```

```
}

public static class decrementCounter extends Thread {
    public void run() {
        counter--;
    }
}
```

Different Threads Increment and Decrement The Same Thread-Safe Counter Repeatedly, Never Resulting in a Race Condition

```
public static int counter = 0;
public static Object lock = new Object();

public static void start() throws InterruptedException {
    incrementCounter ic;
    decrementCounter dc;
    while(counter == 0) { // because of proper locking, this condition is never false
        counter = 0;
        ic = new incrementCounter();
        dc = new decrementCounter();
        ic.start();
        dc.start();
        ic.join();
        dc.join();
    }
    System.out.println(counter); // Never reached
}

public static class incrementCounter extends Thread {
    public void run() {
        synchronized (lock) {
            counter++;
        }
    }
}

public static class decrementCounter extends Thread {
    public void run() {
        synchronized (lock) {
            counter--;
        }
    }
}
```

Information Leak Through Comments

Weakness ID: 615 (*Weakness Variant*)

Status: Incomplete

Description

Description Summary

While adding general comments is very useful, some programmers tend to leave important data, such as: filenames related to the web application, old links or links which were not meant to be browsed by users, old code fragments, etc.

Extended Description

An attacker who finds these comments can map the application's structure and files, expose hidden parts of the site, and study the fragments of code to reverse engineer the application, which may help develop further attacks against the site.

Time of Introduction

Implementation

Demonstrative Examples

Example 1

The following comment, embedded in a JSP, will be displayed in the resulting HTML output.

(Bad Code)

Example Languages: **HTML and JSP**

```
<!-- FIXME: calling this with more than 30 args kills the JDBC server -->
```

Observed Examples

Reference	Description
CVE-2007-6197	Version numbers and internal hostnames leaked in HTML comments.
CVE-2007-4072	CMS places full pathname of server in HTML comment.
CVE-2009-2431	blog software leaks real username in HTML comment.

Potential Mitigations

Remove comments which have sensitive information about the design/implementation of the application. Some of the comments may be exposed to the user and affect the security posture of the application.

Relationships

Nature	Type	ID	Name	View(s) this relationship pertains to
ChildOf	Weakness Variant	540	Information Leak Through Source Code	Development Concepts (primary)699 Research Concepts (primary)1000

Content History

Submissions			
Submission Date	Submitter	Organization	Source
	Anonymous Tool Vendor (under NDA)		Externally Mined
Modifications			
Modification Date	Modifier	Organization	Source
2008-07-01	Sean Eidemiller	Cigital	External
	added/updated demonstrative examples		
2008-07-01	Eric Dalci	Cigital	External
	updated Potential Mitigations, Time of Introduction		
2008-09-08	CWE Content Team	MITRE	Internal
	updated Relationships, Taxonomy Mappings		
2008-10-14	CWE Content Team	MITRE	Internal
	updated Description		
2009-03-10	CWE Content Team	MITRE	Internal

	updated Demonstrative Examples		
2009-07-27	CWE Content Team	MITRE	Internal
	updated Observed Examples, Taxonomy Mappings		

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Scanned Languages

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