



CVE-2019-18178

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CVE-2019-18178

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Freertos Fat](#) from [Amazon](#) contain the following vulnerability:

Real Time Engineers FreeRTOS+FAT 160919a has a use after free. The function FF_Close() is defined in ff_file.c. The file handler pxFile is freed by ffconfigFREE, which (by default) is a macro definition of vPortFree(), but it is reused to flush modified file content from the cache to disk by the function FF_FlushCache().

CVE-2019-18178 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	NONE	HIGH	NONE

CVSS2 Score: **5 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	PARTIAL	NONE

CVE References

Description	Tags	Link
FreeRTOS Real Time Kernel (RTOS) / Bugs / #199 Use after free bug of FreeRTOS+FATFS	Exploit Third Party Advisory sourceforge.net	MISC sourceforge.net/p/freertos/bugs/199/

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Amazon	Freertos Fat	160919a	All	All	All
Operating System	Amazon	Freertos Fat	160919a	All	All	All
Operating System	Amazon	Freertos Fat	160919a	All	All	All
cpe:2.3:o:amazon:freertos+fat:160919a:~::~~::~~::~~::~~::~~::~~::						
cpe:2.3:o:amazon:freertos\+fat:160919a:~::~~::~~::~~::~~::~~::~~::						
cpe:2.3:o:amazon:freertos\+fat:160919a:~::~~::~~::~~::~~::~~::~~::						

No vendor comments have been submitted for this CVE

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