

Attempt 1

Review Feedback

16/10/2024

Attempt 1 Score: 10/10

View Feedback

Anonymous Grading: no

Unlimited Attempts Allowed

Details

Find a current (with in the past 5 years) article/publication that is related to the the use of assembly or machine language.

1. Write a short summary of the article
2. Include your thoughts about the article and why you chose it
3. Include URL

View Rubric

Some Rubric (2)

Criteria	Ratings		Pts
Summary of the article	5 pts Full Marks	0 pts No Marks	/ 5 pts
URL and thoughts	5 pts Full Marks	0 pts No Marks	/ 5 pts
			Total Points: 0



CSIS 2810-Fall-2024

Chapter 2 Assignment

Kamdon Bird

Find a current (with in the past 5 years) article/publication that is related to the use of assembly or machine language.

1. Write a short summary of the article

This article looks into how vehicle-embedded systems, like the ones used in car cameras, can hold a lot of important data that can help with accident investigations or even solving crimes. These systems use real-time operating systems (RTOS) with specialized file structures, which can make it hard to extract the data—especially if the system is damaged. The authors used reverse engineering tools like IDA PRO and Ghidra to break down the system files and figure out how the data is stored. By analyzing the code in the file system driver, they were able to recover extra video footage and other useful data from unallocated memory.

2. Include your thoughts about the article and why you chose it

I chose this article because it directly relates to the use of assembly or machine language. The authors used disassemblers like IDA PRO and Ghidra to reverse-engineer the low-level code of the vehicle's system, which means they were working with assembly or machine language to dig into how the system operates. This kind of work is essential for understanding and recovering data from damaged systems.

3. Include URL

[ScienceDirect - Real-Time Operating System Forensics in Vehicles](#)

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