Di Cataldo

# Stack Frames

A Look From Inside

Teaches you exactly how program memory content and organization is vital for computer security, especially Unix-like operating systems. You will learn how it is manipulated to take control of a computer system, as well as the countermeasures that system designers set up to avoid this. Neither a guide for hackers nor an all-out theory book, this book is ideal for anyone studying computer security who wants to learn by doing. Using a practical approach, you will understand how stack frames relate to hardware and software theory and the various GNU/Linux distributions, before moving on to Base 2, 8 and 16 notations, executables and libraries. Lastly you will go in-depth to understand the intricacies of stack frames. A vital resource for all computer security students and enthusiasts, add Stack Frames: A Look Inside to your library today. What You Will Learn - In-depth knowledge on activation records offunctions, and how this information can be used. - A better understanding on how conventions used by compilers work. - Clarify some concepts on libraries and their relationship with executable programs. - Get, or recall, technical skills using compilers, debuggers, and other tools. Who This Book Is For The book is suitable for college students with a good knowledge of the C language, who are interested in deepening their study of the content and organization of program memory, namely the activation records of functions, as regards possible implications in computer security. A basic knowledge of both the Assembly language and the UNIX operating system is certainly helpful, as well as some practice with compilers and debuggers; but they are not compulsory.

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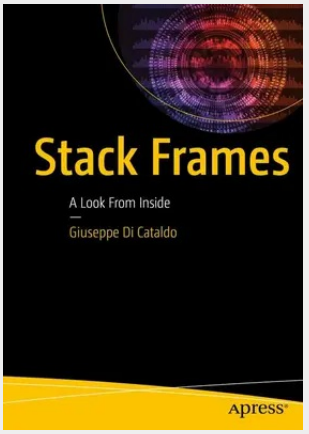


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