1. Record Nr. UNINA9910299350703321 Autore Mejia-Alvarez Pedro Titolo Interrupt Handling Schemes in Operating Systems / / by Pedro Mejia-Alvarez, Luis Eduardo Leyva-del-Foyo, Arnaldo Diaz-Ramirez Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2018 **ISBN** 3-319-94493-2 Edizione [1st ed. 2018.] Descrizione fisica 1 online resource (59 pages) Collana SpringerBriefs in Computer Science, , 2191-5768 005.4469 Disciplina Soggetti Computer hardware Operating systems (Computers) Microprocessors Computer Hardware **Operating Systems Processor Architectures** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia 1. Interrupt Mechanism -- 2. Interrupt Handling in Classic Operating Nota di contenuto Systems -- 3. Handling of Interrupts as Threads -- 4. Interrupt Handling in Android -- 5. Treatment of Interrupts in Embedded and Real Time Systems -- 6. Interrupt Handling Architectures --References.-. In this book, the interrupt handling models used by several operating Sommario/riassunto systems are introduced and compared. We begin with an analysis of the classical interrupt management model used by Unix, followed by the schemes used by modern networked environments. We highlight the key challenges of each of these models and how these have been solved by modern operating systems and the research community. Then we analyze the architectures used for general purpose and embedded real-time operating systems.