
Evaluation of Strategies for the Development of Efficient Code for Raspberry Pi Devices

The Internet of Things (IoT) is faced with challenges that require green solutions and energy-efficient paradigms. Architectures (such as ARM) have evolved significantly in recent years, with improvements to processor efficiency, essential for always-on devices, as a focal point. However, as far as software is concerned, few approaches analyse the advantages of writing efficient code when programming IoT devices. Therefore, this proposal aims to improve source code optimization to achieve better execution times. In addition, the importance of various techniques for writing efficient code for Raspberry Pi devices is analysed, with the objective of increasing execution speed. A complete set of tests have been developed exclusively for analysing and measuring the improvements achieved when applying each of these techniques. This will raise awareness of the significant impact the recommended techniques can have.

Fuente de la publicación:

- Javier Corral-García, José-Luis González-Sánchez and Miguel-Ángel Pérez-Toledano. Evaluation of Strategies for the Development of Efficient Code for Raspberry Pi Devices. Sensors 2018, 18(11), 4066. doi:[10.3390/s18114066](https://doi.org/10.3390/s18114066) [1].

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Enlaces

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