A process is disclosed for securing the execution of a mobile code in an untrusted environment. This process involves encrypting the mobile code using an Error-Correcting Code (E.C.C.) transformation. The code is represented as a matrix $F$. The transformation produces an encrypted matrix $F' = FG + E$, where $G$ is a generating matrix for an $(n, k, d)$ algebraic block code $C$, $P$ is a $n \times n$ random permutation matrix, and $E$ is a $k \times n$ random matrix where at least $n-t$ columns consist of a null vector. Since the encrypted matrix $F'$ is still a matrix, the mobile code which is encrypted is still executable in a user's environment.

![Fig. 2](image-url)