



Software-based Memory Protection on OSEK/VDX

By Michael Stilkerich

AV Akademiker Verlag Aug 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - Revision with unchanged content. Electronic support functions pose the current major area of innovation in the automotive environment. The number of ECUs has reached an upper boundary with about 80 ECUs deployed in a well-equipped car. The industry aims at consolidating the number of ECUs by shifting from a federated architecture to an integrated architecture. The integration of multiple applications on an ECU raises the need for isolation mechanisms that allow for a safe coexistence. The embedded Multi-JVM KESO is a purely software-based approach to provide memory protection through the use of the type-safe Java language along with other isolation mechanisms. KESO is based on an OSEK/VDX operating system, the defacto standard in the automotive industry, and compiles Java code to C-Code ahead-of-time, which allows the use of existing compiler and analyzing tools. This work covers the Java interface to the OSEK/VDX system services and a heap management strategy featuring low-latency incremental garbage collection, but also gives a general KESO overview. 100 pp. Englisch.



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