Title (en)

RUNTIME SERVER FOR SIMULTANEOUSLY EXECUTING MULTIPLE RUNTIME SYSTEMS OF AN AUTOMATION INSTALLATION

Title (de)

LAUFZEITSERVER ZUM GLEICHZEITIGEN AUSFÜHREN MEHRERER LAUFZEITSYSTEME EINER AUTOMATISIERUNGSANLAGE

Title (fr)

SERVEUR DE DURÉE D'EXÉCUTION DESTINÉ À LA MISE EN OEUVRE SIMULTANÉE DE PLUSIEURS SYSTÈMES DE DURÉE D'EXÉCUTION D'UNE INSTALLATION D'AUTOMATISATION

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Application

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Abstract (en)

[origin: WO2021001376A1] The invention relates to a runtime server (100) for simultaneously executing multiple runtime systems (101) in an operating system (103) for a data processing installation for controlling an automation installation on the basis of an installation control program, wherein the runtime systems (101) are designed for real-time execution of the installation control program, comprising: at least two runtime systems (101) for executing application modules (105) of the installation control program, wherein at least one application module (105) for executing an application of the installation control program is installed on each runtime system (101), wherein each runtime system (101) has a data transmission interface (107) for data transmission between runtime systems (101) and/or between application modules (105), wherein each runtime system (101) has an I/O configuration (109) that defines an association between at least one variable of the application modules (105) of the runtime systems (101) and at least one hardware address of a hardware component (113) of an automation installation (112) to be controlled, an I/O interface (111) for data interchange between the at least two runtime systems (101) and the hardware components (113) of the automation installation (112) having at least one I/O input (115) and/or I/O output (117), and an I/O mapping intermediate layer (119), wherein the I/O configurations (109) of the at least two runtime systems (101) are mapped in the I/O mapping intermediate layer (119). The invention further relates to a computer program product (200) for executing the runtime server (100).

IPC 8 full level

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