

Title (en)
METHOD AND APPARATUS FOR FORMING SOFTWARE FAULT CONTAINMENT UNITS (SWFCUS) IN A DISTRIBUTED REAL-TIME SYSTEM

Title (de)
VERFAHREN UND APPARAT ZUR BILDUNG VON SOFTWARE FAULT-CONTAINMENT UNITS (SWFCUS) IN EINEM VERTEILTEN ECHTZEITSYSTEM

Title (fr)
PROCÉDÉ ET APPAREIL DE CRÉATION D'UNITÉS DE CONFINEMENT DE PANNES LOGICIELLES (SWFCU) DANS UN SYSTÈME DISTRIBUÉ EN TEMPS RÉEL

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Application
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Abstract (en)
[origin: WO2013138833A1] The invention relates to a method for limiting the effects of software errors in a distributed real-time system in which a plurality of distributed application systems are executed simultaneously, wherein each application system forms an encapsulated software fault containment unit (SWFCU), wherein an SWFCU comprises the software of a distributed application system, said software being executed on one or more virtual computer nodes and one or more dedicated computer nodes, and exchanging messages via one or more encapsulated virtual communication systems, wherein a communication system consists of communication controllers, switching units and physical connections, and wherein the direct effects of a software error of an SWFCU remain limited to the SWFCU.

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Citation (search report)
See references of WO 2013138833A1

Citation (examination)
OBERMAISSER R ET AL: "Virtual Networks in an Integrated Time-Triggered Architecture", OBJECT-ORIENTED REAL-TIME DEPENDABLE SYSTEMS, 2005. WORDS 2005. 10TH IEEE INTERNATIONAL WORKSHOP ON SEDONA, AZ, USA 02-04 FEB. 2005, PISCATAWAY, NJ, USA, IEEE, 2 February 2005 (2005-02-02), pages 241 - 253, XP010856895, ISBN: 978-0-7695-2347-7

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