Title (en)

METHOD FOR DETERMINING DEADLOCKS IN SECONDARY PROCESSES

Title (de)

VERFAHREN ZUR BESTIMMUNG VON VERKLEMMUNGEN IN NEBENLÄUFIGEN PROZESSEN

Title (fr)

PROCEDE POUR DETERMINER DES BLOCAGES DANS DES PROCESSUS PARALLELES

Publication

EP 1745375 A1 20070124 (DE)

Application

EP 05742661 A 20050502

Priority

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- DE 102004021975 A 20040504

Abstract (en)

[origin: WO2005109196A1] Disclosed is a method for determining deadlocks in secondary processes for a system model that is described in an object-oriented manner. Said method comprises the following steps: a) all active objects of the object-oriented system model are extracted; b) the transitions between the objects are identified; c) the state-waiting relations between the objects are established; d) potential deadlocks are determined as cycles of entities of two or more different objects, which wait for each other, and for each deadlock; e) all potential paths resulting in a determined deadlock are verified by means of a simulated execution of the system model.

IPC 8 full level

G06F 9/46 (2006.01)

CPC (source: EP US)

G06F 9/524 (2013.01 - EP US)

Citation (search report)

See references of WO 2005109196A1

Citation (examination)

JIE WU ET AL: "A Petri-net-based collision and deadlock avoidance scheme for FMS", EMERGING TECHNOLOGIES AND FACTORY AUTOMATION, 1995. ETFA '95, PROCEEDI NGS., 1995 INRIA/IEEE SYMPOSIUM ON PARIS, FRANCE 10-13 OCT. 1995, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US LNKD- DOI:10.1109/ETFA.1995.496691, vol. 2, 10 October 1995 (1995-10-10), pages 511 - 520, XP010160421, ISBN: 978-0-7803-2535-7

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DOCDB simple family (application)

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