

Title (en)

DATA TRANSFER, SYNCHRONISING APPLICATIONS, AND LOW LATENCY NETWORKS

Title (de)

DATENÜBERTRAGUNG, ANWENDUNGEN ZUR SYNCHRONISATION UND NETZWERKE MIT KLEINER LATENZZEIT

Title (fr)

TRANSFERT DE DONNEES, SYNCHRONISATION D'APPLICATIONS ET RESEAU A FAIBLE TEMPS D'ATTENTE

Publication

EP 1190317 A2 20020327 (EN)

Application

EP 00925509 A 20000503

Priority

- GB 0001691 W 20000503
- GB 9910280 A 19990504

Abstract (en)

[origin: GB2349717A] Asynchronous network interface and method of synchronisation between two applications, or an application and remote hardware, on different computers is provided. The network interface contains snooping hardware which can be programmed to contain triggering values comprising either addresses, address ranges, or other data which can be matched, called "trip wires". The interface monitors the data stream passing through it for addresses and data matching these trip wires. On a match, it can generate interrupts for increment event counters, or some other application-based action. This snooping hardware is preferably based upon Content-Addressable Memory. Also disclosed are methods of transferring data using a buffer with pointers to read and write areas, which can be updated over the network, and means for marshalling and unmarshalling data streams using software stubs. Destination addresses of data in a burst can be deduced from its position in a burst, and a burst can be split in two during transmission.

IPC 1-7

G06F 9/46; **H04L 29/06**

IPC 8 full level

G06F 9/46 (2006.01); **G06F 13/38** (2006.01); **H04L 12/861** (2013.01); **H04L 29/06** (2006.01); **H04L 29/08** (2006.01)

CPC (source: EP)

G06F 9/544 (2013.01); **G06F 13/387** (2013.01); **H04L 49/90** (2013.01); **H04L 67/10** (2013.01); **H04L 69/22** (2013.01); **H04L 69/323** (2013.01); **H04L 69/329** (2013.01)

Citation (search report)

See references of WO 0067131A2

Citation (examination)

- US 5764895 A 19980609 - CHUNG DAVID H [US]
- HESS J.R. ET AL: "Implementation and Evaluation of a Prototype Reconfigurable Router", FIELD PROGRAMMABLE CUSTOM COMPUTING MACHINES, 21 April 1999 (1999-04-21), Los Alamitos, pages 44 - 50, XP010359162

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

GB 2349717 A 20001108; **GB 9910280 D0 19990630**; DE 60038703 D1 20080605; DE 60038703 T2 20090702; EP 1190317 A2 20020327; EP 1302853 A2 20030416; EP 1302853 A3 20060809; EP 1302854 A2 20030416; EP 1302854 A3 20051207; EP 1302854 B1 20080423; EP 1302855 A2 20030416; EP 1302855 A3 20070307; EP 1338965 A2 20030827; EP 1338965 A3 20100120; WO 0067131 A2 20001109; WO 0067131 A3 20010913

DOCDB simple family (application)

GB 9910280 A 19990504; DE 60038703 T 20000503; EP 00925509 A 20000503; EP 02102564 A 20000503; EP 02102565 A 20000503; EP 02102567 A 20000503; EP 02102568 A 20000503; GB 0001691 W 20000503