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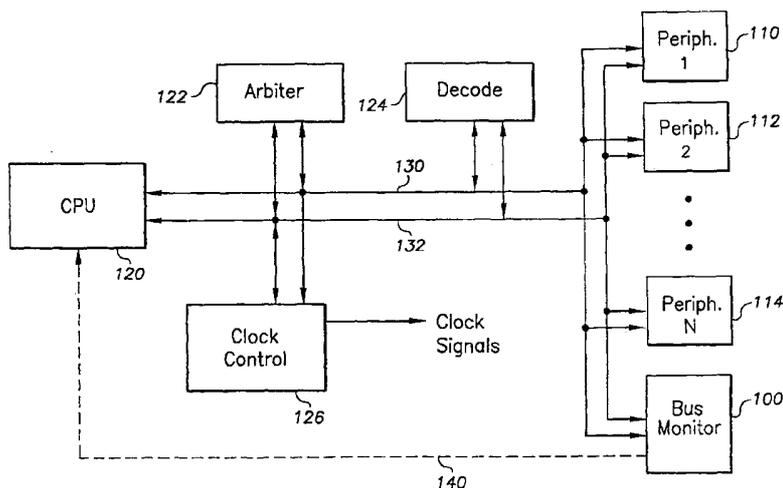
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(54) Title: ADAPTIVELY MONITORING BUS SIGNALS



(57) **Abstract:** An adaptive data communication approach permits communication bus monitoring by using a reconfigurable bus monitor (100) built into the CPU bus structure and adapted to report back to the CPU (120) in response to detecting certain CPU-programmed events. In one particular example embodiment, a circuit arrangement having a CPU circuit (120) communicates with another device over a communication channel (130, 132) while a reconfigurable circuit (100) monitors the communication channel. The CPU circuit configures the reconfigurable circuit for monitoring any of various types of event expected to occur on the communication channel. The reconfigurable circuit collects signals passed on the communication channel and reports back to the CPU circuit when data indicative of the first event type occurs on the communication channel. In response to the data indicative of the monitored event, the CPU circuit reconfigures the reconfigurable circuit to monitor for another event type occurring on the communication channel and thereby permits for an adaptive evaluation of the communication channel. Another aspect of the invention is directed to the CPU redirecting data communication in response to this adaptive evaluation.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 897 152 A (DIGITAL EQUIPMENT CORP) 17 February 1999 (1999-02-17) paragraph '0007! paragraph '0012! paragraph '0020! - paragraph '0044! claim 12; figure 2 ---	1-9
Y	EP 0 997 819 A (HEWLETT PACKARD CO) 3 May 2000 (2000-05-03) paragraph '0005! paragraph '0018! - paragraph '0022! paragraph '0026! paragraph '0028! - paragraph '0029! figure 4 -----	1-9

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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