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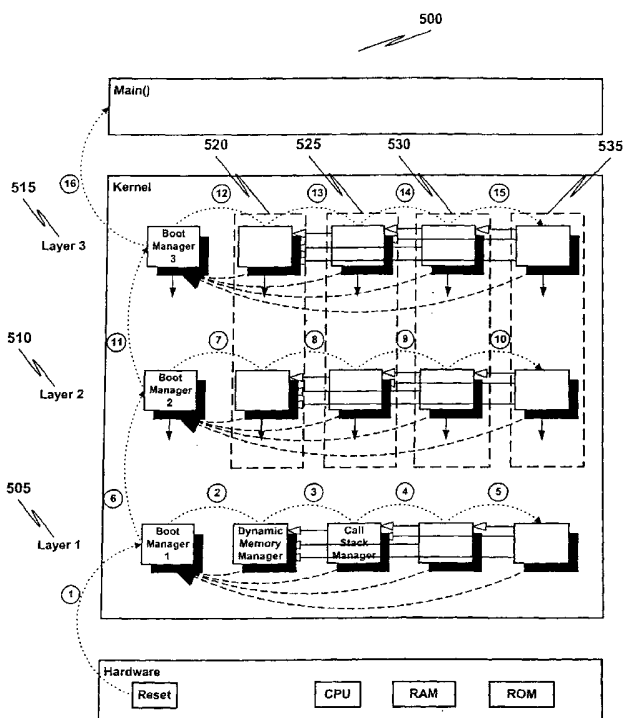
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(54) Title: METHOD AND APPARATUS FOR DEPLOYMENT OF HIGH INTEGRITY SOFTWARE USING REDUCED DYNAMIC MEMORY ALLOCATION



(57) Abstract: A method for reducing dynamic memory allocation includes designing a software program using a memory allocation module for allocating memory, analyzing the software program to determine a bound on dynamic memory allocation and modifying the program based on the analyzing. According to one aspect, the program is modified to use static memory allocation in lieu of dynamic memory allocation based on the analyzing. According to another aspect, the program is modified to reduce the amount of dynamically allocated memory based on the analyzing.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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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, IBM-TDB, INSPEC		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	COCKX A J: "Whole program compilation for embedded software: the ADSL experiment" PROCEEDINGS OF THE 9TH. INTERNATIONAL WORKSHOP ON HARDWARE/SOFTWARE CODESIGN. CODES 2001. COPENHAGEN, DENMARK, APRIL 25 - 27, 2001, PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON HARDWARE/SOFTWARE CODESIGN, NEW YORK, NY: ACM, US, 25 April 2001 (2001-04-25), pages 214-218, XP010543443 ISBN: 1-58113-364-2 abstract page 214, left-hand column, line 27 - line 32 page 216, left-hand column, line 44 -right-hand column, line 52 page 217, right-hand column, line 19 - line 48 -/--	1-3, 16, 17, 19, 23-25, 41-43, 55, 56
<input checked="" type="checkbox"/>	Further documents are listed in the continuation of box C.	<input checked="" type="checkbox"/>
Patent family members are listed in annex.		
° Special categories of cited documents :		
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Date of the actual completion of the international search <p style="text-align: center;">1 March 2004</p>	Date of mailing of the international search report <p style="text-align: center;">08/03/2004</p>	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <p style="text-align: center;">Knapczyk, F</p>	

INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	<p style="text-align: center;">----</p> US 6 038 397 A (IWANISHI NOBUFUSA ET AL) 14 March 2000 (2000-03-14) abstract figure 1 column 2, line 30 - line 35 column 3, line 60 -column 4, line 26 column 4, line 56 -column 5, line 7 claim 1	1-64
A	<p style="text-align: center;">----</p> "MEMORY CORRUPTION DEBUGGING SYSTEM" IBM TECHNICAL DISCLOSURE BULLETIN, IBM CORP. NEW YORK, US, vol. 38, no. 1, 1995, pages 395-400, XP000498811 ISSN: 0018-8689 the whole document <p style="text-align: center;">-----</p>	1-64

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Annex to the International Search Report
Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6038397 A	14-03-2000	JP 7319710 A	08-12-1995