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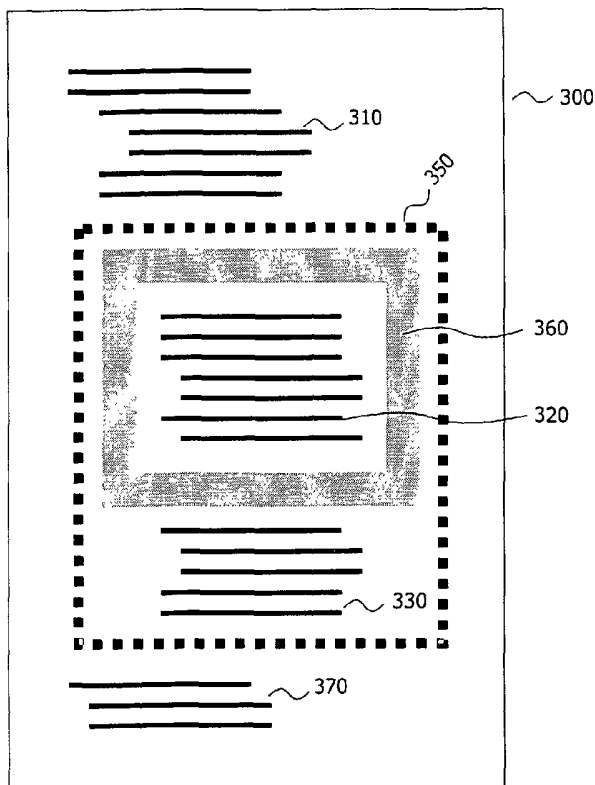
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(54) Title: METHOD AND COMPUTER SYSTEM FOR PROTECTING SOFTWARE COMPONENTS OF AN APPLICATION AGAINST FAULTS



(57) Abstract: A system and method for protecting software components of a software system can be used to guard against faults which might occur during the execution of a software component. A software component which is particularly prone to faults may be designated for protection. Faults occurring during execution of these protected software components can be detected, execution of the protected software component can be halted, and the software system may be restored to the state it held before execution of the protected software component commenced. The software system can then resume executing in a normal manner. Furthermore, a default value for the protected software component may be assigned in the event that a fault is detected during execution of the protected software component.

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Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F11/00 G06F11/07 G06F11/36				
According to International Patent Classification (IPC) or to both national classification and IPC				
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, COMPENDEX, WPI Data, IBM-TDB				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	RAFNEL B A: "A TRANSACTION APPROACH TO ERROR HANDLING" HEWLETT-PACKARD JOURNAL, HEWLETT-PACKARD CO. PALO ALTO, US, vol. 44, no. 3, 1 June 1993 (1993-06-01), pages 71-77, XP000369411	1-6,8,9, 11, 13-18, 20,21, 23,25-28		
Y	page 71, column 1, paragraph 1 - column 1, paragraph 3 page 72, column 2, line 2 - page 74, column 1, line 6 figures 2,3 ----- -/--	10,12, 22,24,30		
<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 :				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> <ul style="list-style-type: none"> *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 50%; border: none; vertical-align: top;"> <ul style="list-style-type: none"> *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *G* document member of the same patent family </td> </tr> </table>			<ul style="list-style-type: none"> *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed 	<ul style="list-style-type: none"> *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *G* document member of the same patent family
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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;">Bozas, I</p>			

INTERNATIONAL SEARCH REPORT

International Application No
PCT/ISA 03/01526

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>GB 1 509 193 A (NAT RES DEV) 4 May 1978 (1978-05-04)</p> <p>page 1, line 8 - page 2, line 3 page 2, line 40 - page 3, line 32 page 11, line 32 - line 54</p> <p>-----</p>	<p>1-4, 8, 9, 11, 13-16, 20, 21, 23, 25, 27, 28</p>
X	<p>COMPUT SURV JUN 1978, vol. 10, no. 2, June 1978 (1978-06), pages 123-165, XP002291908</p> <p>page 139, column 2, paragraph 2 - page 140, column 2, paragraph 2; figure 7</p> <p>-----</p>	<p>1-4, 8, 9, 13-16, 20, 21, 25, 27</p>
Y	<p>US 5 748 882 A (HUANG YENNUN) 5 May 1998 (1998-05-05) column 9, line 36 - column 9, line 46 column 15, line 26 - column 15, line 44</p> <p>-----</p>	<p>10, 12, 22, 24, 30</p>
A	<p>EP 0 965 923 A (INTELLUTION INC) 22 December 1999 (1999-12-22) paragraph '0012! - paragraph '0015! paragraph '0047! - paragraph '0049! paragraph '0053! - paragraph '0057!; figures 2b, 5</p> <p>-----</p>	<p>1-30</p>

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Information on patent family members

International Application No

PCT/US 03/01526

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