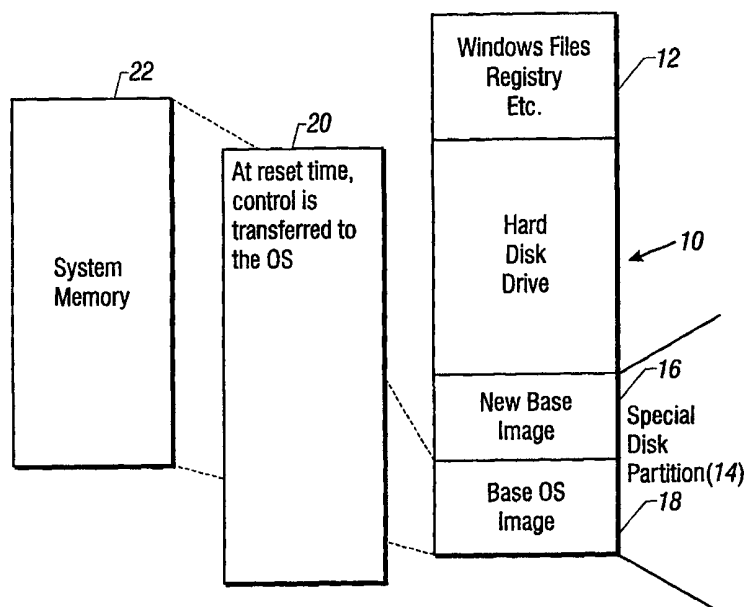




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/US99/08032 <b>(22) International Filing Date:</b> 13 April 1999 (13.04.99) <b>(30) Priority Data:</b> 09/070,419      30 April 1998 (30.04.98)      US <b>(71) Applicant:</b> INTEL CORPORATION [US/US]; 2200 Mission College Boulevard, Santa Clara, CA 95052 (US). <b>(72) Inventor:</b> MERRILL, John; 341 E. Merrill Avenue, Gilbert, AZ 85234 (US). <b>(74) Agent:</b> TROP, Timothy; Trop, Pruner, Hu & Miles, P.C., Suite 100, 8554 Katy Freeway, Houston, TX 77024 (US).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>  <b>(88) Date of publication of the international search report:</b> 16 December 1999 (16.12.99)

**(54) Title:** INITIALIZING AND RESTARTING OPERATING SYSTEMS



**(57) Abstract**

An operating system may be more efficiently initiated and restarted by making a virtual image of the configuration settings for a base system configuration. These settings may be stored and may be used to quickly initiate the system in its base configuration, for example, using an executive. The base configuration may be automatically modified response to system hardware or software configuration changes. These changes may be stored with the base configuration information. When a crash occurs, the virtual image may be used to quickly restore the system without the necessity for rebooting the operating system.

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/08032

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 6 G06F9/445 G06F11/14

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 6 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)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 838 753 A (SUN MICROSYSTEMS INC) 29 April 1998 (1998-04-29)	1,21
Y	column 2, line 31 - line 33	2,5,9,19
A	column 7, line 20 - line 30	14,20
	column 8, line 1 - line 39	
	column 9, line 11 - column 11, line 17	
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A	the whole document	2,9,14, 19,20
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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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,  
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Bijn, K

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 089 958 A (HORTON JAMES A ET AL) 18 February 1992 (1992-02-18)	14,20
Y	abstract	2
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