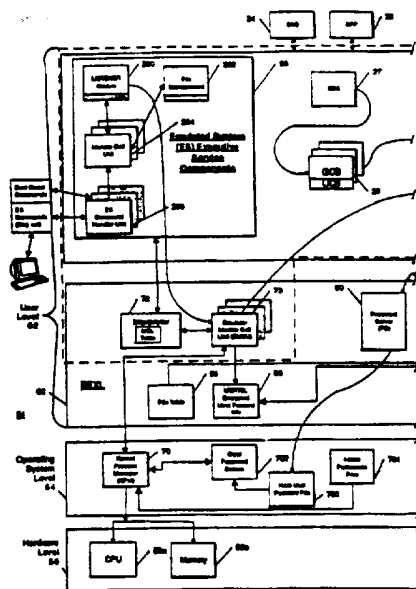




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification⁶ : G06F 17/30; H04L 9/00</p>	<p>A3</p>	<p>(11) International Publication Number: WO 96/10224 (43) International Publication Date: 4 April 1996 (04.04.96)</p>
<p>(21) International Application Number: PCT/US95/12354 (22) International Filing Date: 12 September 1995 (12.09.95) (30) Priority Data: 08/311,646 23 September 1994 (23.09.94) US (71) Applicant: BULL HN INFORMATION SYSTEMS INC. [US/US]; 300 Concord Road, Billerica, MA 01821-4186 (US). (72) Inventors: HIRSCH, Thomas, S.; 24 Fox Run Road, Bedford, MA 01730 (US). BIANCHI, Richard, S.; 4 Rodeo Circle, Billerica, MA 01821 (US). PERRY, Ron, B.; 63 Hillside Road, Wilton, NH 03086 (US). (74) Agent: SOLAKIAN, John, S.; Bull HN Information Systems Inc., Law Office MA30-883A, 200 Concord Road, Billerica, MA 01821-4186 (US).</p>		<p>(81) Designated States: European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <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> (88) Date of publication of the international search report: 9 May 1996 (09.05.96)</p>

(54) Title: A MECHANISM FOR LINKING TOGETHER THE FILES OF EMULATED AND HOST SYSTEM FOR ACCESS BY EMULATED SYSTEM USERS



(57) Abstract

A host data processing system which includes a plurality of input/output devices (58c) operating under the control of an enhanced version of the UNIX operating system. The host system includes an emulator which runs as an application process for executing user emulated system (ES) application programs. The emulator includes a number of emulated system executive service components (28) operating in shared memory (16) and an interpreter (72), an emulator monitor call unit (EMCU 73) and a number of server facilities operating in the host memory (68). The ES executive service command handler (286) and file management components (282) are extended to accommodate to allow creation and access to linked files within both host and emulated system files. The server facilities include mechanism for performing trusted user level validation when a command invokes the access of such a linked file and access checking at file access time which ensures security relative to preventing both unauthorized user access and compromises in host file system data by improper use of linked files.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US95/12354

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :G06F 17/30; H04L 9/00
US CL :395/186, 600, 650
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)
U.S. : 395/186, 600, 650, 700; 380/25

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 practicable, search terms used)
APS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US, A, 4,611,298 (SCHULDT) 09 September 1986, col 2, lines 8-52.	1-12
A	US, A, 4,621,321 (BOEBERT et al) 04 November 1986, summary.	1-12
A	US, A, 4,825,354 (AGRAWAL et al) 25 April 1989, summary.	1-12
Y	US, A, 4,918,653 (JOHRI et al) 17 April 1990, cols 1-3.	1-12
Y	US, A, 4,984,272 (McILROY et al) 08 January 1991, cols 1-2.	1-12
A	US, A, 5,204,961 (BARLOW) 20 April 1993, summary.	1-12

Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search 06 DECEMBER 1995	Date of mailing of the international search report 20 MAR 1996
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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US95/12354

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US, A, 5,361,359 (TAJALLI et al) 01 November 1994, cols 1-7.	1-12