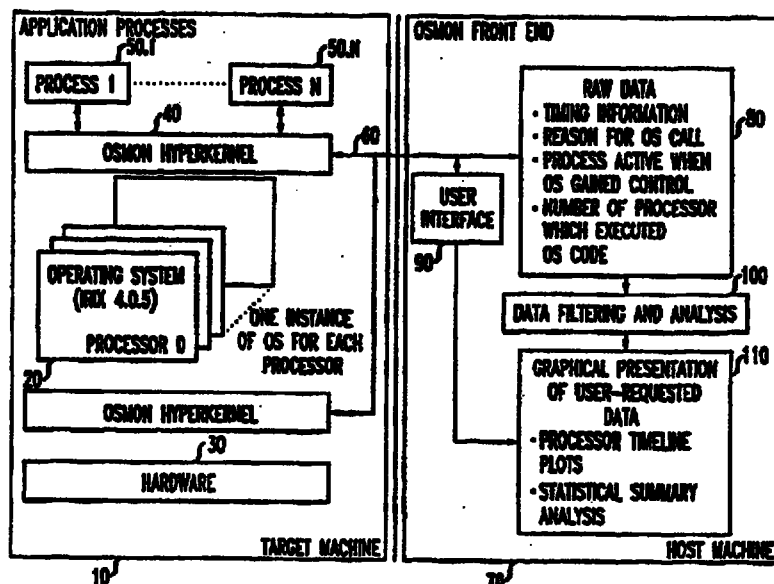




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G06F 9/445, 9/45, 9/00, 9/40, 9/44, 9/46, 15/00, G09B 5/00, G09C 1/00, H01J 31/00	A1	(11) International Publication Number: WO 96/36918 (43) International Publication Date: 21 November 1996 (21:11.96)
(21) International Application Number: PCT/US96/05255 (22) International Filing Date: 16 April 1996 (16.04.96) (30) Priority Data: 08/444,635 19 May 1995 (19.05.95) US (71) Applicant: AT & T IPM CORP. [US/US]; 2333 Ponce de Leon Boulevard, Coral Gables, FL 33134 (US). (72) Inventors: SEIDEL, Kurt, Dieter; 243 Hedgerow Road, Bridgewater, NJ 08807 (US). STICHTER, Allen, Wilbur; 116 Oak Grove Road, Flemington, NJ 08822 (US). (74) Agents: FINSTON, Martin, I. et al.; P.O. Box 679, Holmdel, NJ 07733 (US).		(81) Designated States: CA, CN, JP, MX, RU, SG, UA, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.

(54) Title: METHOD FOR MONITORING A DIGITAL MULTIPROCESSOR



(57) Abstract

An operating system monitoring tool has two components: a hyperkernel (40) that augments the operating system (20) of a target multiprocessing system (10) and a graphical front end (70) for implementing the user interface (90). The hyperkernel component (40) is annexed to the operating system (20) by: intercepting all interrupts and redirecting them from the operating system (20) to the hyperkernel (40) for each point in the operating system (20) that returns back to the application code. Associated with the hyperkernel (40) are buffers (80), located on the respective processors (20), that accumulate information pertaining to calls to the operating system (20). On demand, or when the buffers fill, the accumulated information is relayed to the graphical front end (70) for filtering, manipulation, and display (100 and 110).