

SG 9701635-6

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04N	A2	(11) International Publication Number: WO 96/16505 (43) International Publication Date: 30 May 1996 (30.05.96)
(21) International Application Number: PCT/US95/13705 (22) International Filing Date: 27 October 1995 (27.10.95) (30) Priority Data: 08/337,350 10 November 1994 (10.11.94) US (71) Applicant: BROOKTREE CORPORATION [US/US]; 9868 Scranton Road, San Diego, CA 92121-3707 (US). (72) Inventors: BAKER, David, C.; 10802 Chateau Hill, Austin, TX 78759 (US). SCHELL, Eric, J.; 1911 Aggie Lane, Austin, TX 78757 (US). MULLIGAN, Daniel, P.; 4711 Spicewood Springe Road, Austin, TX 78759 (US). (74) Agent: MURPHY, Michael, J.; Wilson, Sonsini, Goodrich & Rosati, 650 Page Mill Road, Palo Alto, CA 94304-1050 (US).		(81) Designated States: JP, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: SYSTEM AND METHOD FOR GENERATING VIDEO IN A COMPUTER SYSTEM (57) Abstract A system and method for generating composite video signals in a computer are disclosed. Digital pixel data may be processed by software to form component video pixel data, which may include luminance and chrominance components. A chrominance look-up table is provided in a display memory and is used for modulation of the chrominance components. The modulated components are then combined to form digital composite video pixel data which may be stored in a frame buffer in the display memory. Video control information is precalculated and stored in the display memory in advance. The digital composite video pixel data and video control information are then recovered from the display memory to produce a formatted stream of video data. The architecture of this system greatly reduces hardware complexity and bandwidth requirements. In addition, the process may be controlled by a media stream controller which is also adapted for audio and graphics processing. This allows the display memory and various other components to be shared by multiple media subsystems.		