

Title (en)
REAL TIME SOFTWARE SYSTEM

Title (de)
ECHTZEITSOFTWARESYSTEM

Title (fr)
SYSTEME LOGICIEL TEMPS REEL

Publication
EP 1008054 A1 20000614 (EN)

Application
EP 97939349 A 19970728

Priority
• US 9713182 W 19970728
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Abstract (en)
[origin: WO9809225A1] A computer system (10) and a method of operation thereof includes a memory (34) having a standard operating system stored in a first portion (72) and a real time software system stored in a second portion (76a, 76b), and a CPU (20) connected to the memory. The standard operating system controls the CPU (20) to generate standard time slices (100) each having a plurality of instruction cycles (82) and the real time software system controls the CPU to divide the standard time slices into real time software system time slices (108) and standard operating system time slices (110). Real time program instructions are executed during the real time software system time slices (108) and other program instructions are executed during the standard operating system time slices (110). The real time software system can select a duty cycle for the ratio of the number of the time slices (108, 110) in the standard time slice (100). A plurality of input/output interrupts can be serviced on a real time basis during the real time software system time slices (108).

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