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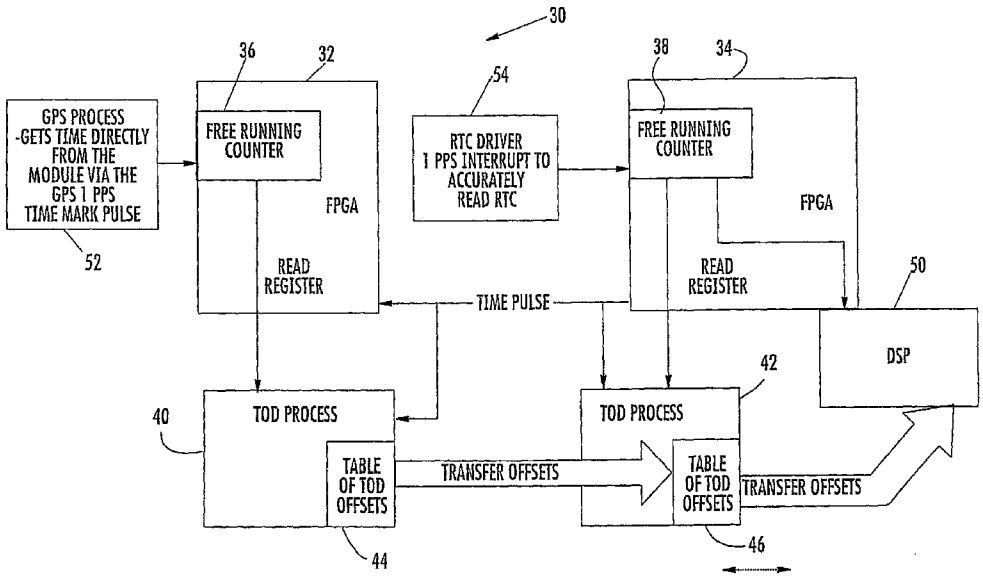
(54) Title: TIME OF DAY SYNCHRONIZATION AND DISTRIBUTION WITHIN A MULTIPROCESSOR EMBEDDED SYSTEM AND RELATED METHODS



(57) Abstract: A software-defined radio includes a pair of radio subsystems such as a red (command) and black (data) radio subsystem having an operating environment conforming to the Software Communications Architecture (SCA) specification, for example, as used for Joint Tactical Radio System (JTRS) . A clock is read by at least one of the radio subsystems for determining time of day. A processor of the radio subsystem is operative for distributing the time of day to the radio subsystems using a global hardware timing pulse. Each processor can include a free-running timer to which any time sources within the pair of radio subsystems are set.

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