



ON-BOARD TIME AND EVENT MANAGEMENT AND PROCESSING SYSTEM

TMSCM technology (Time Management Service Computing Model): software execution platform to run on-board software subject to demanding real-time constraints

Technological advantages

Rapid response to events and dynamic reconfiguration

Top-quality service functions
Simple and secure scheduling via a finite state PLC

Deterministic behaviour

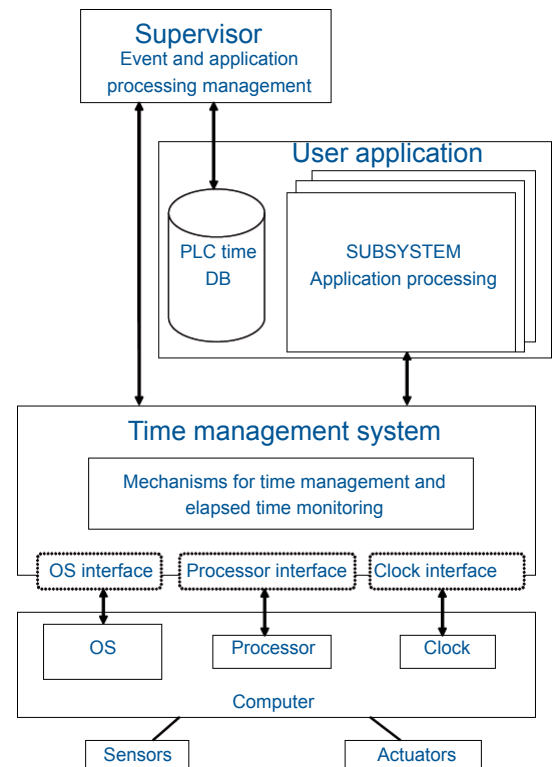
Precise time synchronisation
Periodic and aperiodic testing

Deadline function

Processing times monitored with respect to strict limitations

Performances élevées

Reusability rate for code: 77%
Fluctuations in task period: +/- 1µs
Size of TMSCM platform memory: 113KB



Overview of invention

Time management system encompassing the various mechanisms for activating/de-activating processing applications at pre-determined times, while also monitoring their execution

Includes a PLC that provides dynamic system management with an event response function

Bénéfices commerciaux

Save time and money when developing a real-time application

Comprehensive service to ensure time management for system

Potential applications

All on-board information systems:

- Aviation/Space
- Civil and military drones
- Road and rail vehicles
- Industrial control processes: robots

TRL : 5 (2010)

Patented invention, available under license