



TECHNOLOGY DESCRIPTION

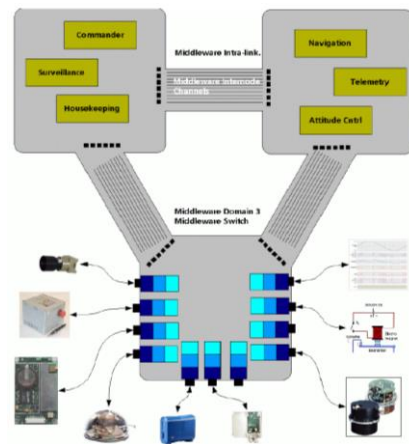
The RODOS operating system requires very few resources and offers preemptive multitasking, as well as its own middleware for communication between threads on the same processor or on different processors.

The system runs on several small satellites (TET-I, BIROS, BeeSat 1 & 2). RODOS was set up as a multi-layer framework: one layer provides the connection to the hardware, while the second layer represents the middleware. This middleware enables communication between different applications and components.



INNOVATIVE ASPECTS

- Very high efficiency
- It can be operated on comparatively small processors.
- It enables to write real-time applications on variable platforms.
- Simple implementation of components of the operating system



TECHNOLOGY READINESS (in space application)

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COUNTRY OF ORIGIN

Germany

LATEST UPDATE

06/2024

TAGS

#operating system

#distributed processing

#real-time operations

#small processors

#cubesats

#smallsats

APPLICATION AREAS

Aviation

Energy

Data Processing, Software & AI

Electrical & Electronic Engineering

Construction & Civil Engineering

Infrastructure & Smart Cities

Space technologies

TECH CARD

