OBOS Operating System

OBOS is shorthand for Objectivity Operating System. OBOS is originally designed for the ARM E-Blockboard by http://www.matrixmultimedia.com.

OBOS based on a micro kernel and is optimized for performance and reliability in a very limited environment suchs as the Atmel AT91SAM7S128 for which Obos was originally designed. OBOS can easily be used on other ARM 7 based system. You can download OBOS for free via www.objectivity.be. This download contains the main kernel as well as drivers for a few E-Block boards. More drivers will be added in the future as well as a 'Writing OBOS Device Drivers'. So, OBOS is in continuous evolution. OBOS may not be available when you read this, but by writing an e-mail to 'subscribe@objectivity.be' we will keep you up to date by sending you an e-mail when it becomes available for download.

Objectivity can help you using OBOS for unsupported other E-Blocks, writing device drivers yourself or write them for you. This support is also available when you like to use OBOS on another ARM 7 based system.

It contains features such as:

- premptive priority based multi threading

- mutex, semaphore, signals, timers, ...

- inter thread communication based on message queues

- interrupt drivers for external interrupts

The footprint required for running OBOS depends on the services and drivers you choose to include in your system. Because it is free, it is a good OS for starters who like to learn more about the ARM architecture, write application using OBOS and write OBOS device drivers.