



Hard Real-Time UNIX-compatible, POSIX-conformant OS Porting and Re-engineering

CLIENT

LynuxWorks™, Inc. is a pioneer and a proven leader in the embedded-systems industry with more than 16 years experience. LynuxWorks' embedded operating systems are based on open standards, and are used over and over in important products made for markets such as communications, aerospace and defense systems, medical, and automotive.

SOLUTION

LynxOS is a UNIX-compatible, POSIX-conformant, multiprocess and multithreaded operating system designed for real-time applications requiring fast, deterministic response. The LynxOS MPC860 product is comprised of two major components:

- + LynxOS kernel
- + Startup monitor program

LynxOS MPC860 kernel is a full-featured LynxOS 2.5.0 kernel including the following components:

- + MMU and cache driver;
- + complete FPU emulator;
- + service module for accesses to the IMM resources;
- + interrupt handler and client drivers ISRs registry;
- + CPM-based UART driver;
- + CPM-based Ethernet driver;
- + PC Card HBA driver;
- + SCSI driver for the PC Card Adaptec SlimSCSI adapter;
- + simple Power Management driver.

Startup Monitor is a firmware program specially developed for configuring the MPC860 controller and booting LynxOS kernel from a specified device. List of features includes:

- + serial line console and command driven user interface;
- + booting over the network from a TFTP host server ;
- + support of the BOOTP protocol;
- + diskless booting from the FLASH PROM;
- + FLASH programming tool;
- + PC Card's CIS parsing utility;
- + SCSI bus probe command (for the SlimSCSI).

AURIGA'S CONTRIBUTION

Port of LynxOS to the following Motorola's boards: Motorola MBX860 and MBX82, Motorola FADS860T, Motorola VADS8260