NAME

   owll, **OWLL_WRITE_ONE**, **OWLL_WRITE_ZERO**, **OWLL_READ_DATA**,
   OWLL_REASET_AND_PRESENCE - Dallas Semiconductor 1-Wire Link Layer Interface

SYNOPSIS

   int
   OWLL_WRITE_ONE(*device_t lldev*, *struct ow_timing *timing*);

   int
   OWLL_WRITE_ZERO(*device_t lldev*, *struct ow_timing *timing*);

   int
   OWLL_READ_DATA(*device_t lldev*, *struct ow_timing *timing*, *int *bit*);

   int
   OWLL_RESET_AND_PRESENCE(*device_t lldev*, *struct ow_timing *timing*, *int *bit*);

DESCRIPTION

   The **owll** interface provides access to the link layer of the Dallas Semiconductor 1-Wire from upper
   layers of the protocol.

   OWLL_WRITE_ONE() and **OWLL_WRITE_ZERO**() writes a one bit or a zero bit respectively on the
   1-Wire bus.

   OWLL_READ_DATA() reads one bit from the 1-Wire bus. This is often referred to as a "Read Time
   Slot" in the 1-Wire device data sheets.

   The **OWLL_RESET_AND_PRESENCE**() function starts a reset sequence and detects if any device(s)
   are present on the bus. This is the beginning of all 1-Wire transactions.

NOTES

   This interface is intended to be used only by the ow(4) device to talk to the low-level bus. By
   convention, the device that implements this interface is called owc(4). Only devices that implement
   own(9) should call these interfaces.

SEE ALSO

   ow(4), owc(4), own(9)

LEGAL

   1-Wire is a registered trademark of Maxim Integrated Products, Inc.

HISTORY

The **owll** driver first appeared in FreeBSD 11.0.

AUTHORS

The **owll** device driver and this manual page were written by Warner Losh.