



Figure 2-12. DEVTVIEW information about USB42's FDO.

## 2.3 The Two Basic Data Structures

This section describes the two most basic data structures that concern a WDM driver: the driver object and the device object. The driver object represents the driver itself and contains pointers to all the driver subroutines that the system will ever call on its own motion. (For the sake of completeness, you should know that you often provide pointers to other routines within your driver as arguments in various kernel-mode service calls.) The device object represents an instance of hardware and contains data to help you manage that instance.

### 2.3.1 Driver Objects

The I/O Manager uses a driver object data structure to represent each device driver. (See Figure 2-13.) Like many of the data structures we'll be discussing, the driver object is partially opaque. This means that you and I are supposed to directly access or change only certain fields in the structure, even though the DDK headers declare the entire structure. I've shown the opaque fields of the driver object in the figure with a gray background. These opaque fields are analogous to the private and protected members of a C++ class, and the accessible fields are analogous to public members.

The DDK headers declare the driver object, and all other kernel-mode data structures for that matter, in a stylized way, as this excerpt from WDM.H illustrates:

```
typedef struct DRIVER_OBJECT {
    CSHORT Type;
    CSHORT Size;
    ...
} DRIVER_OBJECT, *PDRIVER_OBJECT;
```

That is, the header declares a structure with the type name `DRIVER_OBJECT`. It also declares a pointer type (`PDRIVER_OBJECT`) and assigns a structure tag (`_DRIVER_OBJECT`). This declaration pattern appears many places in the DDK, and I won't mention it again. The headers also declare a small set of type names (such as `CSHORT`) to describe the atomic data types used in kernel mode. `CSHORT`, for example, means "signed short integer used as a cardinal number." Table 2-1 lists some of these names.

# Programming The Microsoft Windows Driver Model

**Jeffrey Richter, Jason D. Clark**



## **Programming The Microsoft Windows Driver Model:**

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