

Mac OS 8 NuBus ReadMe for DDK Version 0.1

Prior to the DR1 release of Mac OS 8 (ie. the 1.0 version of the DDK) developers creating NuBus products for Mac OS 8 should read the current PCI documentation as both architectures have many parallels.

NuBus Specific Addendums to current PCI documentation

LOGICAL SLOT ADDRESSES

The logical slot addressing for a NuBus card can be determined by examining the "AAPL,address" property of a given card's RegEntryRef. NOTE: The logical slot address assignment for a NuBus card MAY NOT be equivalent to its physical address assignment. Always use "assigned-addresses" to obtain a NuBus card's physical address assignment.

PHYSICAL SLOT ADDRESSES

The physical slot addressing for a given NuBus card can be obtained by examining the "assigned-addresses" property of a given card's RegEntryRef. NOTE: The physical slot address assignment of a NuBus card MAY NOT be equivalent to its logical address assignment. Always use "AAPL,address" to obtain a NuBus card's logical address assignment.

"AAPL,slot" PROPERTY

The property "AAPL,slot" is found attached to RegEntryRef's for NuBus cards. It is a 32bit unsigned value that contains the physical slot number into which

the NuBus card is installed. Valid value range is 0x9 through 0xE. The physical slot address assignment for a NuBus card can be computed using this value. The logical slot address assignment of a NuBus card cannot be computed using this value.

PLUGIN MATCHING NAME:

A plugin for a NuBus device contains a matching string that is used to associate the plugin with the device it is intended to drive. This matching string is found in the device plugin's "DriverDescription" structure of meta-data:

`TheDriverDescription.driverType.nameInfoStr`

The format for a given NuBus card's "nameInfoStr" is derived from the "boardId" value contained in the card's SlotROM. The "nameInfoStr" is a c-string of this format:

`"AAPL,nubus-boardXXXX"` // Quotes (") not inclusive

Where XXXX is the 16bit "boardId" value of the card's SlotROM, represented in hexadecimal ASCII... Zero extended, lowercase hex numbers. E.g. a card whose SlotROM contained the "boardId" value of 0x3E0 would have a "nameInfoStr" value of:

`"AAPL,nubus-board03e0"`