Macintosh Desk Accessories: Multiple Windows

This article last reviewed: 14 April 1989

A desk accessory can own (and open) multiple windows. The following methods
for doing this are taken from information in "Inside Macintosh Volume I" on
page I-109. (This article assumes you are familiar with the basics of
resources.)

The resource ID of a WIND resource shows ownership. The following ranges
are used for this purpose:

```
    Range
    -32768 to -16385    reserved
    -16384 to -1        used for owned resources
    0 to 127            used for other system resources
    128 to 32767        Not owned
```

The range to look at is -16384 to -1. To decipher the owner information,
view the individual bits in the resource ID:

```
bit     15  14  13  12  11  10  9   8   7   6   5   4   3   2   1   0
        1   1   type bits    owning resource id      you set these bits
```

Bits 14 and 15 are always 1. Bits 11 to 13 define the OWNING resource
type. In the case of a desk accessory, they would be 000, which indicates a
DRVR resource. Bits 5 to 10 specify the OWNING resource ID in the range of
0 through 63. Bits 0 to 4 are set by you. Thus, you can have up to 32
different OWNED resources of the same type for a desk accessory. For
example, a WIND resource with ID -16000:

```
bit     15  14  13  12  11  10  9   8   7   6   5   4   3   2   1   0
        1   1   0   0   0   0   0   1   1   0   0   0   0   0   0   0
        1   1   type bits    owning resource id      you set these bits
                            |--------------------|
                                     |
                                     12
```

This WIND resource is owned by a DRVR resource with ID 12. If the WIND
resource ID is -15599, then you have:

```
bit     15  14  13  12  11  10  9   8   7   6   5   4   3   2   1   0
        1   1   0   0   0   0   1   1   0   0   0   1   0   0   0   1
```

```
     1   1    type bits    owning resource id      you set these bits
                        |--------------------|
                                  |
                                 24
```

You can access these WIND resources through the standard window manager
calls.
Copyright 1989 Apple Computer, Inc.

Keywords: <None>

===

This information is from the Apple Technical Information Library.

19960215 11:05:19.00

Tech Info Library Article Number: 3834