New Technical Notes

Macintosh

®

Developer Support

Owned Resource Shortcuts
Toolbox

Revised by:	March 1988
Written by: Bryan Stearns	May 1986

To allow the Font/DA Mover to renumber desk accessories as needed when moving them between system files, desk accessories should use the "owned resource" protocol described in the Resource Manager chapter of *Inside Macintosh Volume I.*

All resource IDs in a desk accessory should be zero-based. At runtime, a routine can be called to find the current "base" value to add to a resource's zero-based value to get the actual current ID of that resource. Then, when a resource is needed, its zero-based value can be added to the resource base value, giving the actual resource ID to be used in future Resource Manager calls.

Here's the source to a handy routine to get the resource base value, `GetResBase`:

```
;FUNCTION GetResBase(driverNumber: INTEGER): INTEGER;
;
;GetResBase takes the driver number and returns the ID
;of the first resource owned by that driver. This is
;according to the private resource numbering convention
;documented in the Resource Manager.

GetResBase    FUNC

        MOVE.L (SP)+,A0       ; Get return address
        MOVE.W (SP)+,D0       ; Get driver number
        NOT.W  D0             ; Change to unit number
        ASL.W  #5,D0          ; Move it over in the word
        ORI.W  #$C000,D0      ; Add the magic bits
        MOVE.W D0,(SP)        ; Return function result
        JMP    (A0)           ; and return

        END
```

Further Reference:
- The Resource Manager
- M.PT.FontDAMover