Technotes

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T E C H N O T E : A Technique for Figuring Out a Resource's Base Value

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Technote 1006   **OCTOBER 1995**

In the chapter on the Resource Manager in *Inside Macintosh: More Macintosh Toolbox* , owned resources are explained, but the chapter does not include a sample of how to actually figure out the resource's base value. This Technnote includes a shortcut in C, Pascal and ASM to accomplish this task.

This Technote is specifically aimed at those developers who need to know about a resource's ownership, such as developers working on Desk Accessories or Control Panels.

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A Shortcut for Figuring Out a Resource's Base Value

The function `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 chapter on page 1-48 of *Inside Macintosh: More Macintosh Toolbox* .

In C, you can use this macro:

```
#define GetResBase(id) (0xC000 | (((-(id)) - 1) << 5))
```

and in Pascal, you can use this function:

```
function GetResBase(resID: integer):integer;

begin
    GetResBase := BOR($C000, BSL(longint(((-resID)-1)),5));
end;
```

and for those who still program in 68k asm, you can use this function:

```
    ;FUNCTION GetResBase(driverNumber: INTEGER): INTEGER;

    ;


    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

- *Inside Macintosh: More Macintosh Toolbox* , The Resource Manager, 1-48

Change History

This Note was originally written in May, 1986. Since then, it has been rewritten to include Pascal and C versions of the shortcut.