

Technical Note TN1006

A Technique for Figuring Out a Resource's Base Value

CONTENTS

[A Shortcut for Figuring Out a Resource's Base Value](#)

[References](#)

[Change History](#)

[Downloadables](#)

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 Technote 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.

[Oct 1 1995]

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
```

References

[Inside Macintosh: More Macintosh Toolbox](#) , The Resource Manager, 1-48

[Back to top](#)

Change History

01-May-1986 Originally written.

01-October-1995 Revised to include Pascal and C versions of the shortcut.

[Back to top](#)

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[Back to top](#)

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