

Reading File Attributes

The Code

The following code will display the attributes of the file **C:\AREADING.TAB**.

```
declare function GetFileAttributes
filename = 'C:\areading.tab'

EQU FILE_NOT_FOUND$          to -1
EQU FILE_ATTRIBUTE_READONLY$ to 1
EQU FILE_ATTRIBUTE_HIDDEN$   to 2
EQU FILE_ATTRIBUTE_SYSTEM$   to 4
EQU FILE_ATTRIBUTE_DIRECTORY$ to 16
EQU FILE_ATTRIBUTE_ARCHIVE$  to 32
EQU FILE_ATTRIBUTE_NORMAL$   to 128
EQU FILE_ATTRIBUTE_TEMPORARY$ to 256
attributes = GetFileAttributes (filename)

if attributes = FILE_NOT_FOUND$ then
  call msg( filename : ' was not found!')
end else
  if bitand( attributes , FILE_ATTRIBUTE_READONLY$) then
    call msg( filename : ' is a readonly file.')
  end
  if bitand( attributes , FILE_ATTRIBUTE_HIDDEN$) then
    call msg( filename : ' is hidden file.')
  end
  if bitand( attributes , FILE_ATTRIBUTE_SYSTEM$) then
    call msg( filename : ' is system file.')
  end
  if bitand( attributes , FILE_ATTRIBUTE_DIRECTORY$) then
    call msg( filename : ' is directory.')
  end
  if bitand( attributes , FILE_ATTRIBUTE_ARCHIVE$) then
    call msg( filename : ' is an archive file.')
  end
  if bitand( attributes , FILE_ATTRIBUTE_NORMAL$) then
    call msg( filename : ' is a normal file.')
  end
  if bitand( attributes , FILE_ATTRIBUTE_TEMPORARY$) then
    call msg( filename : ' is a temporary file.')
  end
call msg(@window , 'attributes = ': attributes)
end
```

The attributes are returned in one byte, in the **attributes** variable. Each bit is equated to its decimal equivalent. If more than one bit is set, these values are added.

The Windows API Declaration

The code above will not run until the declaration for [GetFileAttributes\(\)](#) has been added. To add the declaration, do the following:

1. Log out of the application.
2. Log into the **SYSPROG** application.
3. Add a row, (call it **DLL_APICALLS_KERNEL32**), with the first line as **KERNEL32** and containing the declarations as shown below.

```
KERNEL32
LONG STDCALL GetFileAttributesA(LPCHAR) as GetFileAttributes
//....add any other declarations in KERNEL32 here.....
```

The function is aliased to its the ANSI version **GetFileAttributesA()**.

4. Save the row.
5. Run [Declare_FCNS](#) at the System Editor Exec Line to create the declaration header, as shown below:

```
RUN DECLARE_FCNS 'DLL_APICALLS_KERNEL32'
```

6. Exit the editor.
7. Log out of **SYSPROG**.
8. Log into your application.
9. Run the window.