Tips for allocating memory:

1. Defer Your Memory Allocations: deferring the allocation until the time when you actually need it

But deal with global variables are tricky:

The basic approach often taken with global variables is to define a static variable in one of your code modules and use a public accessor function to get and set the value, as shown in Listing 1.

Listing 1 Lazy allocation of memory through an accessor

MyGlobalInfo\* GetGlobalBuffer()

{

static MyGlobalInfo\* sGlobalBuffer = NULL;

if ( sGlobalBuffer == NULL )

{

sGlobalBuffer = malloc( sizeof( MyGlobalInfo ) );

}

return sGlobalBuffer;

}