
Subject: Re: Memory Allocation under GS/OS
Posted by Oz on Sat, 11 Oct 2014 13:42:52 GMT
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Before asking the Memory Manager to allocate us memory space, there is an easy way to know if we can get the expected amount of memory. Because we allocate memory by block of 64 KB (one full Bank), the only thing we care is how many banks the GS/OS can allocate us.

The code is, as usually, very simple :

```
        PushLong #0          ; Ask Memory Manager for Free Space size
        _FreeMem
        PLA
        PLA
*--
        CMP    #$0007       ; We need 7 Bank of 64 KB
        BCC    ErrorMemory  ; not enough memory, so exit
```

The FreeMem returns the free space size in Bytes, as a 32 bits integer value. We ignore the low WORD and focus on the high one. We have there the number of 64 KB areas available.

We have anyway to check each AllocOneBank calls because of the memory fragmentation (we ask for full banks, not areas that could be located over a bank boundary).

Olivier
