

T:mk.tmp

COLLABORATORS

	<i>TITLE :</i> T:mk.tmp		
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WRITTEN BY		July 1, 2022	

REVISION HISTORY

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Chapter 1

T:mk.tmp

1.1 main

```
--background--  
rexx_exec.library/AvailMem  
rexx_exec.library/FlushMem  
rexx_exec.library/GetSysBase  
rexx_exec.library/ReBoot
```

1.2 --background--

--background-- :

```
$(C): (1996, Rocco Coluccelli, Bologna)  
$VER: rexx_exec.library 37.2 (15.03.97)
```

rexx_exec.library

This sub-library of the rexxMOOS.library let ARexx programmers use some function from the system exec.library

```
AvailMem()  
FlushMem()  
GetSysBase()  
ReBoot()
```

NOTES

Is part of the MOOS package.

TODO

A lot... :-)

BUGS

1.3 rexx_exec.library/AvailMem

AvailMem :

NAME

AvailMem -- Returns information about the available memory.

SYNOPSIS

size = AvailMem(options)

FUNCTION

Use this function to know how much memory is currently available in the system or to returns the largest free block of memory, according with any class of memory (see below).

INPUTS

options - "Flags/N,Outstem,Largest=L/S"

"Flags" - A bit mask to select which value we need to be returned:

Mem_Any	= 0
Mem_Public	= 1
Mem_Chip	= 2
Mem_Fast	= 4
Mem_Local	= 128
Mem_24bitdma	= 256
Mem_Kick	= 512

"Outstem" - The function may fill a given stem with values of the available memory:

<stem.>Mem_Any	Any type of memory
<stem.>Mem_Public	
<stem.>Mem_Chip	
<stem.>Mem_Fast	
<stem.>Mem_Local	Memory that does not go away at RESET
<stem.>Mem_24bitdma	Memory within 24 bits of address and

usable in DMA mode.

<stem.>Mem_Kick

Memory that can be used for KickTags

"Largest" - Instead of return the total size of memory available, the function can return the largest contiguous block of free mem.

RESULT

The total size of available memory in the classes specified with flags, or the largest block size specifying the "Largest" option.

EXAMPLE

SAY AvailMem()

NOTES

Due to the effect of multitasking, the value returned may not actually be the amount of free memory available at that instant.

SEE ALSO

exec.library/AvailMem(), exec.library/AllocMem()

1.4 rexx_exec.library/FlushMem

FlushMem :

NAME

FlushMem -- Flush all class of memory.

SYNOPSIS

FlushMem()

FUNCTION

Force the system for freeing all un-needed memory.

INPUTS

RESULT

EXAMPLE

CALL FlushMem()

NOTES

SEE ALSO

```
exec.library/AllocMem()
```

1.5 rexx_exec.library/GetSysBase

GetSysBase :

NAME

GetSysBase -- Returns information readed from ExecBase.

SYNOPSIS

GetSysBase(options)

FUNCTION

Use this function to read some information stored into the ExecBase structure.

INPUTS

options - "Outstem/A"

"Outstem" - The function may fill a given stem with data readed from the ExecBase structure:

```
<stem.>ColdCapture
    Coldstart soft capture vector

<stem.>CoolCapture
    Coolstart soft capture vector

<stem.>WarmCapture
    Warmstart soft capture vector

<stem.>KickMemPtr
    Pointer to queue of mem lists

<stem.>KickTagPtr
    Pointer to ROM tag queue

<stem.>KickCheckSum
    Checksum for mem and tags

<stem.>ThisTask
    Pointer to current task structure

<stem.>SysCPU
    System's CPU: 68000, 68010, 68020,
    68030, 68040.

<stem.>SysFPU
    System's FPU: 68881, 68882, FPU40,
```

NOFPU (if there isn't any FPU).

In this release an output stem must be specified when calling the function.

RESULT

In this release the function returns nothing.

EXAMPLE

```
CALL GetSysBase("sys.")
SAY "sys.ColdCapture   == " sys.ColdCapture
SAY "sys.CoolCapture   == " sys.CoolCapture
SAY "sys.WarmCapture   == " sys.WarmCapture
SAY "sys.KickMemPtr    == " sys.KickMemPtr
SAY "sys.KickTagPtr    == " sys.KickTagPtr
SAY "sys.KickCheckSum == " sys.KickCheckSum
SAY "sys.ThisTask      == " sys.ThisTask
SAY "sys.SysCPU        == " sys.SysCPU
SAY "sys.SysFPU        == " sys.SysFPU
```

NOTES

The "SysCPU" and "SysFPU" fields are not valid using a 68060.

SEE ALSO

struct ExecBase

1.6 rexx_exec.library/ReBoot

ReBoot :

NAME

ReBoot -- Reboot the Amiga.

SYNOPSIS

ReBoot ()

FUNCTION

Reboot the machine. All external memory and peripherals will be RESET, and the machine will start its power up diagnostics. This function never returns.

INPUTS

All that we wants.

RESULT

An altogether totally integrated living system.

EXAMPLE

```
SAY "Bye, bye..."  
CALL ReBoot ()
```

NOTES

SEE ALSO

```
exec.library/ColdReboot ()
```
