

CommandRef.hyper

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|---------------|------------------------------------|-----------------|------------------|
| | <i>TITLE :</i> CommandRef.hyper | | |
| <i>ACTION</i> | <i>NAME</i> | <i>DATE</i> | <i>SIGNATURE</i> |
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Chapter 1

CommandRef.hyper

1.1 Command Reference (Wed Jul 15 08:40:38 1992)

Contents:

Introduction

Commands sorted by function
Commands:

account
(task usage, stack check)

active
(make logical window active)

addfunc
(add function to monitor)

addstruct
(add structure definitions)

addtag
(give type to memory range)

alias
(set an alias)

assign
(ARexx: assign to variable)

async
(ARexx: undo Sync command)

attach
(attach macro to key)

attc (go to the macro list)

awin
(open/close the Rexx logical window)

```
break
    (control breakpoints)

checktag
    (check type of address)

cleanup
    (cleanup allocated memory)

clear
    (clear memory range with value)

cleartags
    (clear all types for memory ranges)

clip
    (ARexx: set or get clip)

closedev
    (close PowerVisor device)

closelw
    (close logical window)

closepw
    (close physical window)

closescreen
    (close screen and windows)

closewindow
    (close window)

cls
    (clear current logical window)

color
    (set RGB values for PowerVisor screen)

colrow
    (set size of logical window)
conf    (go to autoconfig list)

copy
    (copy memory)

crash
    (patch all tasks in system)
crsh    (go to list with crashed tasks)

curdir
    (set a new current directory for process)

current
    (set the current logical window)
dbug    (go to the debug list)
```

```
    debug
      (control debugging)

    devcmd
      (give device command)

    devinfo
      (give information about PowerVisor device)
devs  (go to Exec device list)

    disp
      (display integer)
dosd  (go to Dos device list)

    drefresh
      (refresh debug display)

    dscroll
      (scroll debug logical window)

    dstart
      (set position in debug logical window)

    duse
      (set current debug task)

    dwin
      (open/close the debug logical window)

    error
      (generate error string)

    event
      (generate an input event)
exec  (go to ExecBase list)
fdfi  (go to fd-file list)

    fill
      (fill memory with string)
files (go to the file list)

    fit
      (fit a logical window to the visible size)

    float
      (change a floating point register)
font  (go to the font list)

    for
      (execute command for each element in list)

    freeze
      (freeze a task or process)

    fregs
      (show floating point registers)
```

```
    front
      (bring PowerVisor screen to front)
func  (go to the monitor function list)

    gadgets
      (list all gadgets for a window)

    getstring
      (get a string from the user)

    go
      (start executing machinelanguage)
graf  (go to the GfxBase list)

    help
      (give online help)

    hide
      (ARexx: hide output from ARexx)

    hold
      (close PowerVisor screen and windows)

    home
      (go to home position in current logical window)

    hunks
      (show all hunks for a process)
ihan  (go to the input handler list)

    info
      (give information about list element)

    interprete
      (interprete some data as a structure)
intb  (go to the IntuitionBase list)
intr  (go to the Exec interrupt list)

    kill
      (kill a task or process)

    led
      (toggle powerled)

    libfunc
      (give information about library function)

    libinfo
      (give information about library function)
libs  (go to the library list)

    list
      (list the current list)

    llist
      (traverse list)
```

```
    load
      (load a file to memory)

    loadfd
      (load a fd-file)

    loadtags
      (load definitions for memory)

    locate
      (set cursor position on logical window)
lock  (go to the lock list)

    log
      (log output to file)
lwin  (go to the logical window list)

    memory
      (dump memory)
memr  (go to the memory list)

    memtask
      (give memory of task)

    mmuregs
      (show MMU registers)

    mmureset
      (reset MMU tree)

    mmurtest
      (test address for read)

    mmutree
      (show MMU tree)

    mmuwtest
      (test address for write)

    mode
      (change PowerVisor preferences)
moni (go to monitor list)

    move
      (move a physical window)

    next
      (continue searching)

    on
      (execute command on logical window)

    opendev
      (open a PowerVisor device)

    openlw
      (open a logical window)
```

```
openpw
    (open a physical window)

owin
    (open/close PortPrint logical window)

owner
    (show owner of memory)

pathname
    (show pathname from lock)
port  (go to message port list)

prefs
    (change PowerVisor preferences)

print
    (print string)
pubs  (go to public screen list)

pvcall
    (access internal structures)
pwin  (go to physical window list)

quit
    (quit PowerVisor or script)

rblock
    (read block from trackdisk.device)

refresh
    (control refresh rate and command)

regs
    (show registers for task)

remattach
    (remove macro from key)

remclip
    (ARexx: remove clip)

remcrash
    (remove crashed task)

remfunc
    (remove monitor function)

remhand
    (remove input handler)

remove
    (remove node)

remres
    (remove resident module)
```

```
remstruct
    (remove structure definition)

remtag
    (remove memory type definition)

remvar
    (remove variable)

reqload
    (show load requester)

reqsave
    (show save requester)

request
    (show requester)

resident
    (make a ML-script resident)
resm    (go to the resident module list)
reso    (go to the resource list)

rwin
    (open/close Refresh logical window)

rx
    (start ARexx script)

save
    (save memory to file)

saveconfig
    (save current PowerVisor configuration)

savetags
    (save memory type definitions)

scan
    (ask string to user)

screen
    (set PowerVisor on other screen)

script
    (start a PowerVisor or ML-script)

scroll
    (scroll in logical window)
scrs    (go to the screen list)

search
    (search a string in memory)
sema    (go to the semaphore list)

setflags
```

```
(set logical window flags)

setfont
  (set font for logical window)

showalloc
  (show all allocated memory)

size
  (change size for physical window)

source
  (control source for current debug task)

specregs
  (show special 68020 registers)

speek
  (peek supervisor)

spoke
  (poke supervisor)

sprint
  (print on serial terminal)

stack
  (enable stack checking for program)

string
  (ARexx: return string)
stru  (go to the structure definition list)

swin
  (open/close source logical window)

symbol
  (control symbols for current debug task)

sync
  (ARexx: synchronize PowerVisor to ARexx)

tags
  (show all memory types currently defined)
task  (go to the task and process list)

taskpri
  (change priority for task or process)

tg
  (execute command with other current tag list)

to
  (redirect output from command to file)

trace
  (control tracing in current debug task)
```

```
track
    (control resource tracking)

unalias
    (remove alias definition)

unasm
    (disassemble memory)

unfreeze
    (unfreeze a frozen task or process)

unhide
    (ARexx: undo Hide command)

unloadfd
    (unload a fd-file)

unlock
    (unlock a lock)

unresident
    (remove a resident file)

usetag
    (set current tag list)

vars
    (show all variables and functions)

view
    (view memory in the correct type)

void
    (evaluate arguments and do nothing)

wblock
    (write block with trackdisk.device)
wins    (go to window list)

with
    (execute command with other current debug task)

xwin
    (open/close Extra logical window)
```

Various:

[Back to main contents](#)

1.2 Command Reference : Introduction

Note that some commands have a return value. When this is the case the syntax is the following :

```
<returncode> <- COMMAND <arguments> ...
```

Note that this is NOT the way to use the command in PowerVisor. To use the returncode of a command you must use the group operator :

```
< retcode={COMMAND <arguments> ...} <enter>
```

Some commands also return something in the 'rc' variable. The syntax is as follows :

```
RC,<returncode> <- COMMAND <arguments> ...
```

Or if something is returned in the 'input' variable :

```
INPUT,<returncode> <- COMMAND <arguments> ...
```

In all other cases the syntax is as follows :

```
COMMAND <arguments> ...
```

COMMAND is a sequence of characters. All uppercase characters represent the minimum sequence you need before PowerVisor recognizes the command. If you want to abbreviate a command, you must at least use the uppercase characters.

1.3 Command Reference : All commands sorted by function

MMU and 68020 commands:

mmutree

mmureset

mmuregs

mmurtest

mmuwtest

speek

spoke

specregs

Information commands:

list

info

llist

gadgets

regs

fregs

float

libfunc

libinfo

mentask

memory

unasm

Logical window commands:

colrow

fit

active

current

on

setflags

scroll

setfont

xwin

rwin

dwin

awin

owin

swin

openlw

closelw

Physical window commands:

size

move

openpw

closepw

General screen commands:

cls

locate

home

color

screen

Memory commands:

clear

copy

fill

search

next

Special monitor commands:

crash

stack

account

track

addfunc

~

remfunc

Special commands:

kill

freeze

unfreeze

taskpri

curdir

hunks

owner

pathname

opendeV

closedev

devinfo

devcmd
unlock
closewindow
closescreen
remove
remhand
remres
remcrash
load
save
loadfd
unloadfd
rblock
wblock
sprint
event
go
pvcall
for
Script commands:
script
rx
resident
unresident
ARexx commands:
sync
async
front
assign
string

hide

unhide

clip

remclip

Debug commands:

debug

duse

with

break

trace

dscroll

dstart

drefresh

symbol

source

Tag and structure system:

view

addtag

loadtags

savetags

cleartags

remtag

tags

checktag

interprete

usetag

tg

addstruct

remstruct

General commands:

quit

help

void

disp

print

saveconfig

prefs

mode

vars

remvar

alias

unalias

attach

remattach

hold

led

showalloc

cleanup

request

reload

reqsave

getstring

scan

refresh

error

log

to

List commands:

| | | | | | | | | |
|------|------|------|------|------|------|------|------|------|
| exec | intb | task | libs | devs | reso | memr | intr | port |
| wins | attc | graf | conf | scrs | font | dosd | func | sema |

```
resm  fils  lock  ihan  fdfi  crsh  dbug  moni  pubs
stru  lwin  pwin
```

1.4 Command Reference : account

ACCount

This command enables/disables stack checking and task accounting. Default is disabled.

Use the

```
      prefs
      command to install another warning level for the
stack overflow checker.
```

Stack checking is done in the Exec Switch function. This means that the stack checking resolution is not very high (see the

```
      stack
      command).
```

Note that the 'stack' command provides a better stack checker for one specific task.

Related commands:

```
      prefs
      stack
```

1.5 Command Reference : active

Active <logical window>

Make the logical window the active one. The active logical window is the logical window where you can scroll with the keys. You can also use the <tab> key to change the active window. The active logical window is also used for input. This means that when a command is waiting for a key or for input (using the key() function, the

```
      scan
      command or simply
```

because the output was too big to fit on one page) input will be locked (prevented) unless the active logical window is equal to the logical window where the input occurred.

'active' uses autodefaut to the 'lwin' list for the first argument.

Related commands:

```
      current
Related functions:  getlwin()
```

Related lists: lwin

Related tutor chapters: Screens and windows

1.6 Command Reference : addfunc

```
RC,<func node> <- ADdfunc (<libfuncname> | 'offs' <library> < ←
    offset>)
    ['only' <task>] [<type> [<command>]]
```

This is a very powerfull command which enables you to monitor library functions. I will explain this command with examples.

'addfunc' uses autodefaut to the 'task' list for the <task> argument.
'addfunc' uses autodefaut to the 'libs' list for the <library> argument.

The following <type>s are available :

| | |
|---------|---|
| .none. | (do not specify) Only remember the information for the 8 last tasks using this function |
| LED | Blink the powerled everytime the function is used. Also remember the 8 last tasks using the function |
| FULL | Remember the 8 last tasks using this function and also remember the registers they used to call this function |
| FULLLED | Combination of FULL and LED |
| EXEC | Execute <command> everytime the function is called |
| SCRATCH | Destroy the contents of the scratch registers 'd1', 'a0' and 'a1'. They will contain \$BADBADD1, \$BADBADA0 and \$BADBADA1 respectively |

Examples :

```
< loadfd exec fd:exec_lib.fd <enter>
> ...
```

```
< addfunc openlibrary <enter>
```

Whenever some task uses the openlibrary function call, the usage count increments and the information for the last 8 tasks using this function is updated.

```
< addfunc putmsg led <enter>
```

Whenever a task uses the putmsg function the powerled switches its state. The information about the 8 last tasks using this function is updated.

```
< addfunc wait only trackdisk.device <enter>
```

Everytime 'trackdisk.device' uses the Wait function, the usage count is incremented and the information for the 8 last tasks is updated.

You can find the usage counter in the list 'func'. Type 'func' to set this list to the current one and type 'list'.

```
< l func <enter>
> Function monitor      : Node      Library  Offset Traptask      Count Type
> -----
> wait                  : 07EA2250 07E007D8    318 07E0C6E4         2 LED
> putmsg                : 07EA1F48 07E007D8    366 00000000         314 LED
> openlibrary           : 07EA1C40 07E007D8    552 00000000         92 NORM
```

```
< remfunc wait <enter>
< remfunc putmsg <enter>
< remfunc openlibrary <enter>
```

```
< addfunc availmem full <enter>
```

With the

info

command you can see the 8 last tasks using this function and the contents of the registers before the function is called :

```
< info func:availmem func <enter>
> Function monitor      : Node      Library  Offset Traptask      Count Type
> -----
> availmem              : 07ED0680 07E007D8    216 00000000         13 FULL
>
> Workbench             : 07E339D0 01 07E35176    6000 Wait Workbench (02) -
> D0: 001974E0 D1: 00000004 D2: 80000000 D3: 00000000
> D4: 00000000 D5: 00000001 D6: 40000000 D7: 80000000
> A0: 07E321B4 A1: 07E0091E A2: 07E321B4 A3: 07E376F6
> A4: 07E326B8 A5: 07E351A8
> Workbench             : 07E339D0 01 07E35176    6000 Wait Workbench (02) -
> D0: 00000000 D1: 00000000 D2: 80000000 D3: 00000000
> D4: 00000000 D5: 00000001 D6: 40000000 D7: 80000000
> A0: 07E321B4 A1: 07E321B4 A2: 07E321B4 A3: 07E376F6
> A4: 07E326B8 A5: 07E351A8
> Workbench             : 07E339D0 01 07E35176    6000 Wait Workbench (02) -
> D0: 00243E50 D1: 00000002 D2: 80000000 D3: 00000000
> D4: 00000000 D5: 00000001 D6: 40000000 D7: 80000000
> A0: 07E321B4 A1: 07E0091E A2: 07E321B4 A3: 07E376F6
> A4: 07E326B8 A5: 07E351A8
> Workbench             : 07E339D0 01 07E35176    6000 Wait Workbench (02) -
> D0: 001974E0 D1: 00000004 D2: 80000000 D3: 00000000
> D4: 00000000 D5: 00000001 D6: 40000000 D7: 80000000
> A0: 07E321B4 A1: 07E0091E A2: 07E321B4 A3: 07E376F6
> A4: 07E326B8 A5: 07E351A8
> Workbench             : 07E339D0 01 07E35176    6000 Wait Workbench (02) -
> D0: 00000408 D1: 00020001 D2: 01FADB81 D3: 00000000
> D4: 40000000 D5: 80000000 D6: 00000000 D7: 00000408
> A0: 00000000 A1: 07E1EF8C A2: 07ECF5A8 A3: 07E1EF8C
> A4: 07E220C0 A5: 07E21E58
> Workbench             : 07E339D0 01 07E35176    6000 Wait Workbench (02) -
> D0: 001974E0 D1: 00000004 D2: 80000000 D3: 00000000
> D4: 00000000 D5: 00000001 D6: 40000000 D7: 80000000
> A0: 07E321B4 A1: 07E0091E A2: 07E321B4 A3: 07E376F6
> A4: 07E326B8 A5: 07E351A8
> Workbench             : 07E339D0 01 07E35176    6000 Wait Workbench (02) -
```

```

> D0: 00000000    D1: 00000000    D2: 80000000    D3: 00000000
> D4: 00000000    D5: 00000001    D6: 40000000    D7: 80000000
> A0: 07E321B4    A1: 07E321B4    A2: 07E321B4    A3: 07E376F6
> A4: 07E326B8    A5: 07E351A8
> Workbench      : 07E339D0 01 07E35176    6000 Rdy Workbench (02) -
> D0: 00243E70    D1: 00000002    D2: 80000000    D3: 00000000
> D4: 00000000    D5: 00000001    D6: 40000000    D7: 80000000
> A0: 07E321B4    A1: 07E0091E    A2: 07E321B4    A3: 07E376F6
> A4: 07E326B8    A5: 07E351A8

```

```
< remfunc availmem <enter>
```

```
< addfunc availmem exec print 'avail\0a' <enter>
```

```
> avail
```

```
> ...
```

```
< remfunc availmem <enter>
```

Everytime the 'availmem' Exec function is called, PowerVisor will print a message on the PowerVisor screen. You can use very complex instructions. When the command is executed you can make use of the 'rc' variable. This variable will contain the pointer to a copy of the 'func' node for the function. See the The wizard corner for more information about function nodes. Here is an example :

```
< addfunc availmem exec disp *(rc+24) <enter>
```

```
> 00000001 , 1
```

```
> 00000002 , 2
```

```
> ...
```

```
< remfunc availmem <enter>
```

When the command 'disp *(rc+24)' is executed (thus after 'AvailMem' is called) 'rc' points to a copy of the function node. At offset 24 we find the usagecounter.

Related commands:

```

remfunc
Related lists: func

```

1.7 Command Reference : addstruct

```
ADDStruct <filename>
```

Add the structure definitions from the file to the PowerVisor 'stru' list. You can then use these structures with the

```

interpret
and

```

```

view
commands and the peek and apeek functions.

```

You can look in the 'stru' list to see which structures are already

in memory.

The file must be a PVSD file. This is a file made by the 'MStruct' utility which can be found on the PowerVisor disk. 'addstruct' will complain when the format of the file is not right.

Example :

See the 'interpret' command

Related commands:

remstruct

interpret

view

Related functions: peek() apeek() stsize()

Related lists: stru

Related tutor chapters: Looking at things

1.8 Command Reference : addtag

```
ADDTag <address> <bytes> <type> [<structure>]
```

This command adds a tag to the current tag list (set with `usetag`).

With this command you can define the view mode to be used for a range of memory. The

```
view
```

command uses these tags to determine how to dump

memory.

The <address> is the starting address for the memory range. This range continuous for <bytes> bytes. <type> can be one of the following :

```
BA      byte/ascii format
WA      word/ascii format
LA      long/ascii format (default for all memory not in tags)
AS      ascii only format
CO      code format
ST      structure format (format supported by
        addstruct
        )
```

(case is not important).

Other types can be supported in future.

'addtag' uses autodefaut to the 'stru' list for the fourth argument.

If your type is 'ST' you must supply an extra argument <structure>.

This is the pointer to the structure definition you must have loaded with the 'addstruct' command. You can use the stsize() function to obtain the size of a structure. All structure reside in the 'stru' list.

Note that tags are grouped in tag lists. There are 16 tag lists numbered from 0 through 15. The default tag list is number 0. You can use the

```
        usetag
        or
        tg
        command to switch to another tag list. All the tag
commands (including
        view
) only work on the current tag list.
```

Example :

```
    see the
        view
        command.
```

Related commands:

```
    view
    remtag
    cleartags
    loadtags
    savetags
    tg
    usetag
    checktag
    tags
    addstruct
    interprete
Related functions: taglist() stsize()
```

Related lists: stru

Related tutor chapters: Looking at things

1.9 Command Reference : alias

```
ALias [<alias command name> <alias string>]
```

Alias without arguments lists all current aliases.

You can set a new alias `<alias command name>` to `<alias string>` with this command. You can remove the alias string with the

```
unalias
command.
```

When you create a new alias with the same name as an existing alias, the old alias will be removed.

`<alias command name>` is the new command that you want to define. You can't abbreviate this command like all normal commands. If you want to do this you must define another alias for that.

`<alias string>` is the string that is executed whenever you use `<alias command name>`. This will be the exact commandline except for the transformations that are described below.

Before the string is executed all `[]` operators in the `<alias string>` are replaced with the string starting after the first space after the command (the command is `<alias command name>`).

All other spaces before and after the commandline are not ignored and are included in `[]`.

`[<x>]` with `<x>` one digit, is replaced with argument number `<x>`. The first argument is `[1]`. If the argument does not exist, an empty string is returned. Note that both leading and trailing spaces ARE ignored when you use this operator.

You can mix both `[]` and `[<x>]` and use them as many times as you wish.

When you want to use quotes you must precede them with `'\'`.

Note that alias expansion may lead to big commandlines (especially if you use recursive aliases). If the commandline gets too big you will get an error. You can increase the maximum commandline length with the

```
prefs
command.
```

Alias expansion is only done once. This means that you can't recursively define aliases in this manner.

When you use the group operator `{}`, alias expansion is done again. So you can define recursive aliases using groups.

Example :

```
< alias lfd 'loadfd [] fd:[]_lib.fd' <enter>
```

When you type `'lfd exec'` on the command line, the command line will be expanded to `'loadfd exec fd:exec_lib.fd'` before execution.

```
< alias execute li[]bs <enter>
```

When you type 'execute st li' on the command line, the command line will be expanded to 'list libs'.

(This example is of course completely useless).

```
< alias writeln 'print \'[]\0a\'' <enter>
```

```
'writeln we are testing' will result in  
'print 'we are testing\0a''
```

Look how the newline is quoted. This is because we don't want a real newline in the alias string. We want '\0a' in the alias string.

The following will NOT create an infinite loop:

```
< alias disp 'list []' <enter>  
< alias list 'disp []' <enter>
```

This sequence of command simply swappes the two commands 'disp' and 'list'.

The following three commands will generate an infinite loop :

```
< alias disp '{list []}' <enter>  
< alias list '{disp []}' <enter>  
< disp 3 <enter>  
> A stack overflow was getting close !
```

PowerVisor stops the recursion when there is no more available stack.

The following two commands define a new command 'fact' to compute the facultaty of its argument :

```
< alias _fact 'void if(([])==1,1,{_fact ([])-1}*([]))' <enter>  
< alias fact 'disp {_fact []}' <enter>
```

```
< fact 5 <enter>  
> 00000078 , 120
```

'_fact' is the recursive alias. 'fact' is only provided to give a more command like syntax. Note that this recursion is limited by both the available stack and the maximum length of the commandline.

You can redefine a command :

```
< alias disp 'disp ([])+1' <enter>
```

```
< disp 4 <enter>  
> 00000005 , 5  
< d 4 <enter>  
> 00000004 , 4
```

When you use '[' in the alias string, this sequence is replaced by everything after the first space. For example :

```
< alias pr 'print \'a[]b\0a\' <enter>
< pr test <enter>
> atestb

< pr test <enter>
> a testb
```

Look at the following example if you want more precise argument control :

```
< alias pr 'print \'Second : [2], First : [1]\0a\'' <enter>
< pr a b <enter>
> Second : b, First : a

< pr 1th 2nd <enter>
> Second : 2nd, First : 1th
```

Related commands:

```
unalias
Related tutor chapters: Installing PowerVisor Alias Reference
```

1.10 Command Reference : assign

```
AAssign <assignment string>
```

Assign a value to a PowerVisor variable.
This command also works for memory assignments.

Example:

The following ARexx script (type in and execute with 'rx')

```
/* Script */
address rexx_powervisor
a=1
assign 'a=2'
disp a
disp 'a'
```

Will have as output :

```
< rx file <enter>
> 00000001 , 1
> 00000002 , 2
```

Related commands:

```
rx
```

```
vars
remvar
script
assign
error
clip
remclip
string
Related tutor chapters:  Scripts
```

1.11 Command Reference : async

```
ASync
```

Use this command to disable the synchronization enabled with `sync`.

Related commands:

```
sync
rx
Related tutor chapters:  Scripts
```

1.12 Command Reference : attach

```
<attach node> <- ATtach <command string> <code> <qualifier>
[('e' | 'c') ['+' ]]
```

This command attaches a command to a key. You can use this command to initialize your functionkeys (such a command attached to a key is called a macro).

With

```
remattach
you can remove macros.
```

When you press the defined key, the command will be copied to the commandline. The effect is exactly the same as it would be if you had typed in the command and pressed enter.

If you do not want the command to be feedbacked on your screen if you press the assigned key, you may want to precede the commandline with a '~'.

If you use the 'e' (Exec) option, the command is executed without disturbing the commandline. The command is not feedbacked on the screen.

If you use the 'c' (Copy) option, the <command string> is copied to the current position in the stringgadget. Nothing is executed.

If you use either the 'e' or 'c' options, you can add a '+' to indicate that the key should not be filtered out by the input handler. This means that the pressed key is handled normally. After the default behaviour, the command is executed ('e') or the command string is copied to the commandline ('c').

Example :

To add the

```
list
command to the <F1> key you can use :
```

```
< attach 'list' 050 0 <enter>
```

If you press <F1> 'list' is put on the stringgadget and an enter is simulated (this means that 'list' is also put in the history buffer).

If you do not want the stringgadget to be disturbed you can use :

```
< attach 'list' 050 0 e <enter>
```

Related commands:

```
remattach
Related lists: attc
```

Related tutor chapters: Installing PowerVisor Scripts

1.13 Command Reference : awin

```
AWin [<number of lines>]
```

Open/close the Rexx window. When the 'Rexx' logical window is open, PowerVisor will use it for Rexx output. Otherwise the current logical window is the one that will receive the output.

Normally the height of the new logical window is 30 % of the total physical window height ('Main' is the physical window for all standard logical windows). However, if you specify <number of lines>, the logical window will be opened with <number of lines> visible lines (This is the number of lines when the default PowerVisor font is used).

By default the 'Rexx' logical window has the following characteristics :

- Number of columns is fixed and equal to the maximum number of columns visible at the time the logical window is created
- Number of rows is fixed and is always equal to 50
- -MORE- checking is disabled
- Interrupt/Pause checking is disabled
- Home position is top-visible
- Auto Output Snap is off

You can change these characteristics with the

```
prefs
```

 command.

Note that if the 'intui' mode flag is one (this is off by default, see the

```
mode
```

 command) the logical window will be opened on a new physical ↵
 window.

<number of lines> is ignored in that case.

Related commands:

```
rwin
```

```
dwin
```

```
swin
```

```
xwin
```

```
owin
```

```
fit
```

```
colrow
```

```
prefs
```

```
mode
```

Related lists: lwin

Related tutor chapters: Screens and windows Scripts

1.14 Command Reference : break

```
RC <- Break ('a'|'c'|'n'|'t'|'p'|'r') <address> [<condition>|< ↵ ↵
  timeout>]
```

Install a breakpoint for the current debugtask.

```
break a <address> <timeout>    Breakpoint only breaks after the <timeout>
                                counter becomes zero.
break c <address> <condition>   Only break if the condition is true.
break n <address>                Normal breakpoint.
break t <address>                Temporary breakpoint.
```

```
break p <address>          Profiler breakpoint. Does not break. Only
                           increments a counter.
break r <breakpoint number> Remove a breakpoint.
```

'rc' contains the pointer to the new breakpoint node.

Examples :

```
< break c 00c05320 ' (@d0<d1)&&(@pc>00c05380)'
```

This breakpoint will cause a break if d0 is lower than d1 and the programcounter is greater than 00c05380.

Related commands:

```
debug
trace
duse
with
symbol
Related functions: getdebug()
```

Related lists: dbug

Related tutor chapters: Debugging

1.15 Command Reference : checktag

```
<bytes remaining> <- CHecktag <address>
```

Check if an address resides in the current tag list. If it is, PowerVisor will print the type of the tag list followed by the remaining number of bytes after <address> in this tag.

If the address is not in the tag list, PowerVisor will print the number of bytes remaining before the next tag. If there is no next tag, PowerVisor will print \$7fffffff.

Example :

```
< addtag 1000 50 as <enter>
```

```
< checktag 1010 <enter>
> AS 00000028,40
```

```
< checktag 900 <enter>
> 00000064,100
```

```
< checktag 1100 <enter>
```

```
> 7FFFFFFF,2147483647
```

Related commands:

```
    addtag
```

```
    remtag
```

```
    tags
```

```
    cleartags
```

```
    loadtags
```

```
    savetags
```

```
    usetag
```

```
    tg
```

```
    view
```

```
Related functions: taglist()
```

Related tutor chapters: Looking at things

1.16 Command Reference : cleanup

```
CLEANup
```

This command frees all memory blocks that are allocated with the `alloc()` function and the `rblock` command. This is also done automatically when PowerVisor quits.

Related commands:

```
    showalloc
```

```
    rblock
```

```
Related functions: alloc() free() getsize() isalloc() ↔  
                  realloc()
```

Related tutor chapters: Scripts

1.17 Command Reference : clear

```
CLEAr [<value>]
```

Fill all unused memory with <value> (or 0 if value is not specified).

<value> is a longword.

Example :

```
< clear $ABCDEF00 <enter>
```

This command will fill all free memory with \$ABCDEF00. So you can easily see which memory is free and which memory is not if you view the memory.

1.18 Command Reference : cleartags

CLEARTags

Clear all tags in the current tag list.

Related commands:

remtag

addtag

loadtags

savetags

tags

usetag

tg

checktag

view

Related functions: taglist()

Related tutor chapters: Looking at things

1.19 Command Reference : clip

```
[RC,<Pointer to data>] <- CLIP <Clip name> [<Pointer to data> < ←  
Length>]
```

If you supply the <Pointer to data> and <Length> arguments this command can be used to install a new clip in the ARexx system. In this case the return value (RC) is undefined.

If you don't supply these two extra arguments, PowerVisor will search the clip and return the pointer to the data in 'RC' (or 0 if not found). Note

that this pointer is actually a pointer to the string part of the 'RexxArg' structure so you can find the length of the data in *(RC-4).w (the word four bytes before the data).
The pointer is also displayed on screen.

Example:

```
< clip TEST "Testing 1 2 3..." 16 <enter>

< memory {-clip TEST} 16 <enter>
> 07E9A0F0: 54657374 696E6720 31203220 332E2E2E           Testing 1 2 3...

CLI< rx 'say getclip(test)' <enter>
CLI> Testing 1 2 3...
```

Related commands:

```
remclip

rx

assign
Related tutor chapters : Scripts
```

1.20 Command Reference : closedev

```
CLOSEDev <device block>
```

Close a device opened with
opendev
.

Related commands:

```
opendev

devcmd

devinfo
```

1.21 Command Reference : closelw

```
CLOSELw <logical window>
```

Close a logical window previously opened with
openlw
or one of the
standard logical window commands (xwin,rwin,awin,owin,dwin,swin).

You can't close the 'Main' logical window.

'closelw' uses autodefaut to the 'lwin' list for the first argument.

Related commands:

```
openlw
awin
owin
rwin
dwin
swin
xwin
openpw
closepw
Related lists: lwin
```

Related tutor chapters: Screens and windows

1.22 Command Reference : closepw

```
CLOSEPw <physical window>
```

Close a physical window. All logical windows on this physical window are automatically removed.

You can't remove the 'Main' physical window.

'closepw' uses autodefaut to the 'pwin' list for the first argument.

Related commands:

```
openpw
openlw
closelw
Related lists: pwin
```

Related tutor chapters: Screens and windows

1.23 Command Reference : closescreen

CLOSEScreen <screen>

This command closes a screen. All windows on this screen are also closed.

'closescreen' uses autodefaut to the 'scrs' list for the first argument.

Be careful with this command. Closing screens that do not belong to you is not so friendly for the other program.

Related commands:

closewindow
Related lists: scrs

1.24 Command Reference : closewindow

CLOsewindow <window>

This command closes a window. The menu's are cleared. The DMRequest is cleared. All requesters attached to this window are removed and the IDCMP flags are set to zero.

'closewindow' uses autodefaut to the 'wins' list for the first argument.

Be careful with this command. Closing windows that do not belong to you is not so friendly for the other program (of course you can simply kill or freeze the other command and you will hear no complaints :-)

Related commands:

closescreen
Related lists: wins

1.25 Command Reference : cls

CLs

This command clears the current logical window.

After the window is cleared the current position is set to the home position of the logical window. This home position can be on two different places :

- the real (0,0) home position. Logical windows like 'Debug' and 'Refresh' have this position as their home position. Such windows are called real-top windows. When such a window is cleared, PowerVisor automatically scrolls to the (0,0) position.
- the top position of the bottom visible part of the logical window. Logical windows like 'Main' have this position as their home

position. These windows are called top-visible windows. When such a window is cleared, PowerVisor scrolls to the bottom visible part of the logical window and sets the current position to the top line of this visible part.

Note that you can change the behaviour of each logical window with the

```
prefs
command.
```

Related commands:

```
current
```

```
prefs
Related functions: getlwin()
```

Related lists: lwin

Related tutor chapters: Screens and windows

1.26 Command Reference : color

```
COLor <col num> <red> <green> <blue>
```

Change the rgb value of a PowerVisor screen colour. Only use 0 or 1 for <col num> (except if you have a two bitplane screen).

This command gives an error when you try to use it when PowerVisor is on another screen.

Related commands:

```
screen
Related tutor chapters: Screens and windows
```

1.27 Command Reference : colrow

```
COLRow <logical window> <columns> <rows>
```

Set the number of columns and rows (in characters) for the specified logical window. If <columns> or <rows> are equal to -1, PowerVisor will scale them automatically to the maximum size available. The disadvantage of this is that the logical window is cleared everytime the visible size (in the direction that is -1) changes.

The number of columns and rows can be as big as you want. If the size is too big you can scroll in the logical window using the following keys (in combination with the Left-Alt key) on the numeric keypad :

```
8 (arrow up)      scroll logical window one line up
```

```
2 (arrow down)    scroll one line down
6 (arrow right)   scroll one column right
4 (arrow left)    scroll one column left
9 (PgUp)          scroll 5 lines up
3 (PgDn)          scroll 5 lines down
7 (Home)          scroll to the top left position
1 (End)           scroll to the bottom left position
5                scroll to the right as far as you can
```

If there are more logical windows open on the screen you can choose which one you want to scroll by pressing the <Tab> key. The active window is the logical window with the full (blue for two bitplanes or black for one bitplane) status bar. The other logical windows have an empty status bar. Note that the active logical window is not the same as the current logical window. The active logical window is only used to indicate in which window you can scroll with the keys. The current logical window is the window that will get the output for all commands. All input is also redirected to the active logical window (see the `Screens and Windows` chapter for more info).

'colrow' uses autodefaut to the 'lwin' list for the first argument.

See the 'lwin' list for all available logical windows.
There are seven standard logical windows :

```
Rexx      : ARexx output window
PPrint    : PortPrint output window
Refresh   : refresh window
Debug     : debugging window
Extra     : extra window
Main      : main window
Source    : source window for source level debugger
```

You can use the `getcol()` and `getrow()` functions to ask the number of rows and columns respectively that you have set with this command. If you want the real number of rows and columns (after scaling) you can use the `cols()` and `lines()` functions.

Note that you can change the <tab> key to any other key with the

```
prefs
command.
```

Example :

Make the 'Main' logical window autoscalable in both directions :

```
< colrow main -1 -1 <enter>
```

You can't scroll in this logical window now, and everytime the visible size changes the window is cleared (since there is a new rescaling).

Make the 'Main' logical window very big in both directions :

```
< colrow main 200 100 <enter>
```

(200 columns and 100 rows). Type some output on this window :

```
< help commands <enter>
> ...
```

Now you can scroll using the keys explained above.

You can use the

```
fit
command to scale the size back to normal.
```

Related commands:

```
fit
xwin
rwin
dwin
swin
awin
owin
openlw
closelw
prefs
Related functions: getcol() getrow() cols() lines()
```

Related lists: lwin

Related tutor chapters: Screens and windows

1.28 Command Reference : copy

```
Copy <source> <destination> <bytes>
```

Copy <bytes> bytes from <source> to <destination>.
Be cautious with this command. It can be very destructive.

Related commands:

```
fill
search
```

1.29 Command Reference : crash

CRash <taskpointer>

This command patches the TrapCode in the task to the PowerVisor trapcode routine. This means that PowerVisor will trap all exceptions for that task. This command is useful in combination with 'mode patch'. 'mode patch' patches all new tasks (by patching AddTask) while 'crash' patches all existing tasks (to patch all tasks use 0 for the <taskpointer>). You should use this command if you want to debug using resident breakpoints or if you want to be able to debug a task after it crashes (in that case you should have done this command BEFORE the task crashes).

Note that all these difficulties are only for tasks already running when PowerVisor was started (provided 'mode patch' is true). All new tasks will get the proper attention of PowerVisor.

Note that it is sometimes dangerous to patch all tasks at once since it is possible that a program uses the TrapCode field for other purposes. If you have such programs use 'crash' with a specific task node.

'crash' uses autodefaut for the 'task' list for the first argument.

Related commands:

mode

1.30 Command Reference : curdir

CUrdir <process> <directory name>

Set a new current directory for a process.

'curdir' uses autodefaut to the 'task' list for the first argument.

Example :

```
< curdir Shell :langua/sources <enter>
```

Related lists: task

1.31 Command Reference : current

CURRent <logical window>

Set the current logical window. Only 'Extra' and 'Main' are allowed. Before you can use the 'extra' logical window you must open it with

the

```
xwin
command or the
openlw
command.
```

'current' uses autodefault to the 'lwin' list for the first argument.

You can use the `getlwin()` function to see which logical window is current. Use the

```
on
command to temporarily set the current logical window
(for one command).
```

Example :

Open 'Extra' logical window (if not already open) :

```
< xwin <enter>

< current extra <enter>
< l task <enter>
> ...
```

Output appears on 'Extra' logical window.

Close 'Extra' window :

```
< xwin <enter>
```

Related commands:

```
xwin

on

openlw
Related functions: getlwin()
```

Related lists: lwin

Related tutor chapters: Screens and windows

1.32 Command Reference : debug

```
RC <- DEBug 'n' | 'c' | 'l' <filename> | 't' <task node> | ('r <←
' | 'f' | 'u')
[<debug node>] | 'd' <name>
```

Use this command to control the debug tasks.

```
debug n      Waits for the next 'LoadSeg' and make a debugtask from that
process.
```

`debug c` Waits for the next 'AddTask' and make a debugtask from that task.

`debug l <filename>`
Load an executable program to debug.
Symbols are automatically loaded if they exist.
Warning ! If you use the AmigaDOS 1.3 version, PowerVisor will NOT create a CLI for the loaded program. Therefore it is better to use 'debug n' if possible. In AmigaDOS 2.0 the CLI structure is properly allocated (using 'CreateNewProc')

`debug t <task node>`
Take an existing running task to debug.
You can also take a crash node to debug. In that case you can singlestep the task from where it crashed

`debug f` Remove the current debugnode and freeze the task

`debug f <debug node>`
Remove the specified debugnode and freeze
This command is mostly used when 'debug n' or 'debug t' was used to start the debugging

`debug r` Remove the current debugnode.
The task will simply continue executing from where it was interrupted.
This command is mostly used when 'debug n', 'debug c' or 'debug t' was used to start the debugging
If you have AmigaDOS 2.0 you may also use 'debug r' with 'debug l'

`debug r <debug node>`
Remove the specified debugnode.

`debug u` Remove the current debugnode.
The task will be stopped ('RemTask') and the program will be unloaded (UnLoadSeg) if the debug task was loaded with 'debug l'. This command is mostly used when 'debug l' was used
If you have AmigaDOS 2.0 you may also use 'debug u' with 'debug n'

`debug u <debug node>`
Remove the specified debugnode.

`debug d <name>`
Create dummy debugnode for symbols only.

When a new debug task is created, it is put in the 'DBug' list.
'rc' contains the pointer to the new debug node.

'debug' uses autodefaut to the 'dbug' list for the <debug node> argument.
'debug' uses autodefaut to the 'task' list for the <task node> argument.

Related commands:

duse

trace

symbol

break

source

Related functions: `getdebug()`

Related list: `dbug` `task`

Related tutor chapters: `Debugging`

1.33 Command Reference : `devcmd`

```
RC <- DEVCmd <dev> <command> [<flags> [<length> [<data> [< ←  
offset>]]]]
```

Give a command to a device opened with

`opendev`

. The parameters specified

are for the `IORequest`. If you do not specify these parameters (`'flags',...`) the `IORequest` will remain unchanged. The variable `'rc'` contains the result of the `'DoIO'` function.

Related commands:

`opendev`

`closedev`

`devinfo`

1.34 Command Reference : `devinfo`

```
DEVInfo <device block>
```

Show port and `iorequest` information for a device opened with `'opendev'`.

Related commands:

`opendev`

`closedev`

`devcmd`

1.35 Command Reference : `disp`

```
<value of expression> <- Disp <expression>
```

Use this command to display an expression.

Example :

```
< disp 4*(7-3) <enter>
> 00000010 , 16
```

Related commands:

print

locate

Related tutor chapters: Expressions

1.36 Command Reference : drefresh

DRefresh

This command refreshes the debug display. 'drefresh' is only useful when you are in fullscreen debugging mode.

See the

prefs

,

dwin

and

swin

commands to install the fullscreen

debugger.

Related commands:

dwin

swin

debug

duse

prefs

Related lists: dbug

Related tutor chapters: Debugging

1.37 Command Reference : dscroll

DScroll <offset>

Scroll <offset> bytes up in the fullscreen debugger. You can only use this command when the 'Debug' logical window is open (with

```
        dwin
        ). <offset>
```

can be negative. PowerVisor will always convert <offset> to a multiple of a word.

You can also scroll in the debug display with the 'Ctrl' key in combination with the following keypad keys :

```
8 (up)      scroll 2 bytes up
2 (down)    scroll 2 bytes down
9 (PgUp)    scroll 20 bytes up
3 (PgDn)    scroll 20 bytes down
5           scroll to programcounter (use 'dstart' to simulate this)
```

Related commands:

```
dstart

debug

trace

break

dwin
Related functions:  toppc()  botpc()
```

Related lists: lwin dbug

Related tutor chapters: Debugging

1.38 Command Reference : dstart

```
DStart <address>
```

Set the start of the debug logical window. You can only use this command when the 'Debug' logical window is open (with

```
        dwin
        ).
```

Related commands:

```
dscroll

debug

trace

break

dwin
Related functions:  toppc()  botpc()
```

Related lists: lwin dbug

Related tutor chapters: Debugging

1.39 Command Reference : duse

DUse <debug node>

Set the current debug task.

Use the `getdebug()` function to determine the current debug node.

Also see the

`with`
`command` to temporarily set the current debug node.

'duse' uses autodefaut to the 'dbug' list for the first argument.

Related commands:

`with`

`debug`

`break`

`trace`

`drefresh`

`symbol`

Related functions: `getdebug()`

Related lists: `dbug`

Related tutor chapters: Debugging

1.40 Command Reference : dwin

DWin [<number of lines>]

Open/close the debug window. (required if you want to use fullscreen debugging).

Normally the height of the new logical window is 30 % of the total physical window height ('Main' is the physical window for all standard logical windows). However, if you specify <number of lines>, the logical window will be opened with <number of lines> visible lines (This is the number of lines when the default PowerVisor font is used).

By default the 'Debug' logical window has the following characteristics :

- Number of columns is fixed and equal to 82
- Number of rows is fixed and equal to 42
- -MORE- checking is disabled
- Interrupt/Pause checking is disabled
- Home position is real-top
- Auto Output Snap is off

You can change these characteristics with the
prefs
command.

You can't use
on
with the 'Debug' logical window.

Note that if the 'intui' mode flag is one (this is off by default, see the
mode
command) the logical window will be opened on a new physical ↔
window.
<number of lines> is ignored in that case.

Related commands:

rwin

swin

xwin

awin

owin

debug

prefs

mode

on
Related lists: lwin

Related tutor chapters: Screens and windows Debugging

1.41 Command Reference : error

```
<pointer to error string> <- EError <error number>
```

Get a pointer to an error string (see the `geterror()` function for a list of error numbers). This contents of this pointer is very volatile because the pointer actually points to a very much used area in PowerVisor. Because of this, this command has only limited use. The command is more useful in ARexx where it returns a string containing the

error message.

Example:

The following command results in rubbish because the
 memory
 command
 immediatelly needs the area containing the error string.

```
< memory {error 17} <enter>
> <rubbish>
```

If you want a copy of the string you can use the `alloc()` function :

```
< str=alloc(s,#{error 17}) <enter>
< memory str 16 <enter>
> 07E9C25A: 4D697373 696E6720 6F706572 616E6420           Missing operand
```

Related commands:

rx

script

Related functions: `geterror()`

Related tutor chapters: Scripts

1.42 Command Reference : event

Event <class> <subclass> <code> <qualifier> <x> <y>

Add an input event to the input event chain. This command is most useful in macros and in ARexx.

Note that you if you want to use an EventAddress for a specific event, you can split this event address in two parts and supply them instead of <x> and <y>.

Possible class values :

| | |
|-------------|----|
| NULL | 0 |
| RAWKEY | 1 |
| RAWMOUSE | 2 |
| EVENT | 3 |
| POINTERPOS | 4 |
| TIMER | 6 |
| GADGETDOWN | 7 |
| GADGETUP | 8 |
| REQUESTER | 9 |
| MENULIST | 10 |
| CLOSEWINDOW | 11 |
| SIZEWINDOW | 12 |

| | | |
|-----------------|----|---------------------|
| REFRESHWINDOW | 13 | |
| NEWPREFS | 14 | |
| DISKREMOVED | 15 | |
| DISKINSERTED | 16 | |
| ACTIVIEWINDOW | 17 | |
| INACTIVIEWINDOW | 18 | |
| NEWPOINTERPOS | 19 | (AmigaDOS 2.0 only) |
| MENUHELP | 20 | (AmigaDOS 2.0 only) |
| CHANGEWINDOW | 21 | (AmigaDOS 2.0 only) |

Possible subclass values :

For class NEWPOINTERPOS :

| | |
|------------|---|
| COMPATIBLE | 0 |
| PIXEL | 1 |
| TABLET | 2 |

Possible code values :

For class RAWKEY :

| | |
|-----------------|------|
| UP_PREFIX | \$80 |
| KEY_CODE_FIRST | \$00 |
| KEY_CODE_LAST | \$77 |
| COMM_CODE_FIRST | \$78 |
| COMM_CODE_LAST | \$7f |

For class RAWMOUSE :

| | |
|----------|------|
| LBUTTON | \$68 |
| RBUTTON | \$69 |
| MBUTTON | \$6a |
| NOBUTTON | \$ff |

For class EVENT (AmigaDOS 2.0 only) :

| | |
|-----------|---|
| NEWACTIVE | 1 |
| NEWSIZE | 2 |
| REFRESH | 3 |

For class REQUESTER :

| | |
|----------|---|
| REQCLEAR | 0 |
| REQSET | 1 |

Possible qualifier values :

| | |
|------------|--------|
| LSHIFT | \$0001 |
| RSHIFT | \$0002 |
| CAPSLOCK | \$0004 |
| CONTROL | \$0008 |
| LALT | \$0010 |
| RALT | \$0020 |
| LCOMMAND | \$0040 |
| RCOMMAND | \$0080 |
| NUMERICPAD | \$0100 |

```

REPEAT          $0200
INTERRUPT       $0400
MULTIBROADCAST $0800
MIDBUTTON       $1000
RBUTTON         $2000
LEFTBUTTON      $4000
RELATIVEMOUSE   $8000

```

Related commands:

```
attach
```

1.43 Command Reference : fill

```
Fill <dest> <bytes> <with>
```

Fill the memory starting at <dest> with the string <with>. Do this for <bytes> bytes.

Be cautious with this command. It can be very destructive.

Example :

```
< a=alloc(n,1000) <enter>
< fill a 22 'test\41' <enter>
```

will copy 4.4 times the string "testA" beginning at address in a.
The memory map looks something like:

```
< m a <enter>
> 07E79AB2: 74657374 41746573 74417465 73744174      testAtestAtestAt
> 07E79AC2: 65737441 74650000 00000000 00000000      estAte.....
> 07E79AD2: 00000000 00000000 00000000 00000000      .....
> 07E79AE2: 00000000 00000000 00000000 00000000      .....
> ...
```

Related commands:

```
copy
```

```
search
```

1.44 Command Reference : fit

```
FIT <logical window>
```

This command adjusts the number of columns and number of rows of a logical window to fit exactly in the visible size. This is useful after a switch from non-interlace to interlace for example. You can't scroll in the

logical window after a 'fit' since the window is just as large as the visible size.

You can achieve the same result with the `colrow` command, but then you have to compute the number of columns and rows for yourselves.

'fit' uses autodefault to the 'lwin' list for the first argument.

Example :

Open the 'Extra' logical window :

```
< xwin <enter>
```

```
< fit extra <enter>
```

Related commands:

`colrow`

`xwin`

`rwin`

`dwin`

`swin`

`awin`

`owin`

Related lists: `lwin`

Related tutor chapters: Screens and windows

1.45 Command Reference : float

```
FLoad <task>|<debug node> <register number> <register value>
```

Change the value of a floating point register in a primitive way (At this moment only double and single format are supported and no exponent. The number of digits left and right of the decimal point is also limited to nine, all other digits will be ignored).

<register number> may be 0 to 7 for fp0 to fp7 respectively.

Example :

Change fp3 for the current debug task:

```
< float getdebug() 3 -3.1415926 <enter>
```

Related commands:

fregs

1.46 Command Reference : for

```
FOR <listname> <command>
```

For each element in list <listname> execute <command>. The command is executed with the pointer to the current element from the list in the 'rc' variable.

Warning ! Don't use commands that may cause the removal of some of the elements in the list.

Example :

```
< for task disp rc <enter>
> 07E2D4B0 , 132306096
> 07E4DE50 , 132439632
> 07E5CBB0 , 132500400
> 07E1C418 , 132236312
> 07E49DB8 , 132423096
> 07E1B788 , 132233096
> 07E62768 , 132523880
> 07E1D510 , 132240656
> 07E60860 , 132515936
> 07E0AF7A , 132165498
> 07E4CD20 , 132435232
> 07E08000 , 132153344
> 07E07C68 , 132152424
> 07E70388 , 132580232
> 07EB4F48 , 132861768
> 07E0DEE0 , 132177632
> 07E13880 , 132200576
> 07E15D00 , 132209920
> 07E339D0 , 132331984
> 07E0C6E4 , 132171492
> 07E4FEE8 , 132447976
> 07E06362 , 132146018
> 07E21B28 , 132258600
> 07EB5948 , 132864328
```

displays all pointer to tasks.

To count all resident modules for example, use :

```
< {a=0;for resm a=a+1;disp a} <enter>
> 0000002A , 42
```


Related commands:

```
list
Related tutor chapters: List Reference Looking at things
```

1.47 Command Reference : freeze

```
FReeze <task>
```

Freeze a task. Remember that when you quit PowerVisor all frozen tasks are lost.

Use the

```
unfreeze
command to unfreeze a task.
```

In the 'task' list all frozen tasks have 'Cold' as their 'Stat'.

'freeze' uses autodefaut to the 'task' list for the first argument.

Related commands:

```
kill

unfreeze
Related lists: task
```

1.48 Command Reference : fregs

```
FREGs <task>|<debug node>
```

Show the floating point registers for a task in a primitive way. Each floating point register (fp0..fp7) is shown in the internal Exec stackframe format (12 bytes) followed by the real value of the register (At this moment only double and single format are supported and no exponent. The number of digits left and right of the decimal point is also limited to nine).

Future enhancements will provide better output and more support in general for floating point debugging.

Example :

Show all floating point register for the current debug task:

```
< fregs getdebug() <enter>
> 3FF50000 83126E97 8D4FD800 : 0.000999999
> 40040000 AFFFFFFF FFFFA00 : 43.999999999
> BEEB0000 8637BD05 AF6C6800 : -0.000000999
> 3FFF0000 9E065152 D8EAE800 : 1.234567799
> C11C0000 EE6B27FF FFFF800 : -999999999.999999880
```

```
> BFFF0000 80000000 00000000 : -1.000000000
> 40000000 C90FDAA1 7F49B800 : 3.141592652
> 40020000 A0000000 00000000 : 10.000000000
```

Related commands:

regs

float

1.49 Command Reference : front

FRont

Bring the PowerVisor screen to the front from within an ARexx script.

Related commands:

rx

Related tutor chapters: Scripts

1.50 Command Reference : gadgets

Gadgets <window>

Lists all gadgets in the specified window.

'gadgets' uses autodefault to 'wins' for the first argument.

Example :

```
< l wins <enter>
> Window name      : Address  Left  Top Width Height WScreen
> -----
>                  : 07E42A78   0   12  692   430 07E20300
>                  : 07E8C810   0    0  704   456 07E77A60
> Clock            : 07E66BD0  558 336  120   140 07E280D0
> My Shell         : 07E414E0   0  568  692   456 07E280D0
>                  : 07E3B078   0   16  692  1008 07E280D0

< gadgets clock <enter>
> Gadget ptr : left right width height Render  Text      SpecInfo ID
>
> 07E63C2C   :  -22    0    24    16 07E43BC4 00000000 00000000    0
> Flags      :  GADGHCOMP GADGIMAGE GRELRIGHT LABELITEXT
> Activation :  RELVERIFY BORDERSNIFF
> Type       :  SYSGADGET WUPFRONT CUSTOMGADGET
>
> 07E63C6C   :  -45    0    24    16 07E5506C 00000000 00000000    0
```

```

> Flags      : GADGHCOMP GADGIMAGE GRELRIGHT LABELITEXT
> Activation : RELVERIFY BORDERSNIFF
> Type       : SYSGADGET WDOWNBACK CUSTOMGADGET
>
> 07E6682C   :  -17   -9   18   10 07E5549C 00000000 00000000   0
> Flags      : GADGHCOMP GADGIMAGE GRELBOTTOM GRELRIGHT LABELITEXT
> Activation : RELVERIFY BORDERSNIFF
> Type       : SYSGADGET SIZING CUSTOMGADGET
>
> 07E66C84   :    0    0   20   16 07E558CC 00000000 00000000   0
> Flags      : GADGHCOMP GADGIMAGE LABELITEXT
> Activation : RELVERIFY BORDERSNIFF
> Type       : SYSGADGET CLOSE CUSTOMGADGET
>
> 07E66CC4   :    0    0    0   15 00000000 00000000 00000000   0
> Flags      : GADGHCOMP GADGIMAGE GRELWIDTH LABELITEXT
> Activation : BORDERSNIFF
> Type       : SYSGADGET WDRAGGING CUSTOMGADGET

```

Related commands:

list

info

Related lists: wins

Related tutor chapters: Looking at things

1.51 Command Reference : getstring

```

INPUT,<ptr to inputline> <- GETstring <title> <max number of ↵
chars>

```

Ask the user for input. This command uses reqtools.library (V37 or higher) (© Nico François) if available, otherwise this command is equivalent to the

```

scan
command.

```

The result of this command (in input), is a pointer to the result string (or 0 if the user pressed 'cancel'). This string is remembered until you quit PowerVisor or until you use another input command (

```

scan
,
reqload
,

reqsave
or
getstring
).

```

This command returns a string if used from ARexx.

<title> is the title to be put in the requester window

<max number of chars> is the maximum number of characters that is allowed in the requester

Both parameters are ignored if 'scan' is used

Example :

```
< getstring 'This is the title' 256 <enter>
Requester> This is a test <enter>
```

```
< memory input 20 <enter>
> 07EEBC82: 54686973 20697320 61207465 73740000      This is a test..
> 07EEBC92: 00000000                                ....
```

Related commands:

```
scan

request

reqload

reqsave
Related functions: key()
```

1.52 Command Reference : go

```
<result> <- GO <address> [<commandline>]
```

Start executing at <address>.

You can make inline code with this command.

The registers are preset to certain values (see the script command).

With the

```
resident
command you can load a ml-script into memory. You
can use the 'go' command to execute this script.
```

Example :

```
< disp {go "\70\01Nu"} <enter>
> 00000001 , 1
```

Because this program is equivalent to :

```
moveq.l #1,d0
rts
```

Related commands:

script

pvcall

resident

unresident

Related tutor chapters: Scripts

1.53 Command Reference : help

Help [<topic>]

Ask more information about a certain topic. You must have PowerVisor-help and PowerVisor-ctrl installed in your s: or program directory before you can use 'help'. If you omit <topic> you will get the main menu.

Related tutor chapters: Getting Started

1.54 Command Reference : hide

HIde

Hide all output from commands issued from an ARexx script. This is equivalent to using the '-' operator in front of a commandline (when you are typing commands from PowerVisor). But you can't type a '-' in front of an ARexx commandline, so you have to use 'hide'.

Related commands:

unhide

rx

Related tutor chapters: Scripts

1.55 Command Reference : hold

HOld

This command closes the PowerVisor screen and waits for the Right-Alt, Right-Shift,? combination to reopen it again. If a crash happens PowerVisor will reopen its screen automatically.

Note that you can redefine the hot key to any key combination you want with the

```
prefs
command.
```

Related commands:

```
quit
```

```
prefs
```

Related tutor chapters: Getting Started

1.56 Command Reference : home

```
HOMe
```

Adjust the current location on the current logical window to the top location. Note that this is not always the same as 'locate 0,0' (see the Screens and windows chapter for more info). This command also scrolls the logical window to that position (in contrast with

```
locate
).
```

Related commands:

```
locate
```

```
cls
```

```
print
```

```
current
```

Related functions: getx() gety() getchar() lines() cols()
getlwin()

Related lists: lwin

Related tutor chapters: Screens and windows

1.57 Command Reference : hunks

```
HUnks <process>
```

Show all the hunks for a process

'hunks' uses autodefault to the 'task' list for the first and only argument.

Related lists: task

Related tutor chapters: Looking at things

1.58 Command Reference : info

Info <object address> [<list>]

The 'info' command can be used to ask more information about an element of a list.

Note that the information this command gives will contain no BPTR's. These are automatically converted to APTR's.

Examples :

Let's assume we have the 'PowerVisor' task in the task list (this is in fact the case since you have probably started PowerVisor :-)

```
< info task:powervisor task <enter>
```

or

```
< info powervisor task <enter>
```

or

```
< info powervisor <enter>
```

or

```
< info task:powervisor <enter>
```

```
> Task node name      : Node      Pri StackPtr  StackS Stat Command      Acc
> -----
> PowerVisor1.0.task : 07E70370 00  07E7137E    4096 Wait          TASK -
>
> IDNestCnt          : 00          | TDNestCnt          : FF          | SigAlloc          : E000FFFF
> SigWait            : E0000000 | SigRecvd           : 00000000 | SigExcept         : 00000000
> TrapAlloc          : 8000          | TrapAble           : 0000          | ExceptData        : 00000000
> ExceptCode         : 00F83AEC | TrapData           : 00000000 | TrapCode          : 07E77696
> SpLower            : 07E703D0 | SpUpper            : 07E713D0 | SpReg             : 07E7137E
> MemEntry           : 07E703BA | UserData           : 00000000 |
```

The first version of the command is the safest one. There is nothing that can go wrong there.

The second version could crash if the current list is not equal to the 'task' list. This is because PowerVisor will then try to interpret the element starting with 'powervisor' in the other current list as a task. (If you are lucky there is no such element in the current list, in that case you simply get an error).

The third version is also safe although you could end up with the wrong information for the wrong element in the wrong list.

The last version could crash if the current list is not equal to the 'task' list. It is in fact the most dangerous version of all.

The 'info' command does not work for the 'Exec', 'IntB' and 'Graf' lists. This is because these lists are structures and already give you all information there is.

Related commands:

```
list
Related tutor chapters: Looking at things
```

1.59 Command Reference : interpret

```
INTERprete <structure pointer> <struct def pointer>
```

Show the contents of a structure at <structure pointer> using the <struct def pointer> structure definition. You can load and add structure definitions with the

```
addstruct
command.
```

All structure definitions reside in the 'stru' list.

You can also view structures using the

```
view
command.
```

'Interprete' uses autodefult to the 'stru' list for the second argument.

Example :

Add all exec structure definitions.

```
< addstruct exec.pvsvd <enter>
> UNIT
> IS
> IV
> ..
> SS
> SM
> TC
> ETask
> StackSwapStruct
```

All these structure are now added to the 'stru' list.

You can now use the 'interpret' command to dump the contents of a task structure (for example) :

```
< l task <enter>
> Task node name      : Node      Pri StackPtr  StackS Stat Command      Acc
> -----
> Background Process  : 07E28330 00  07E2D500    4096 Wait iprefs      (02) -
```



```

> REXXMaster          : 07E51438 04 07E51C7A    2048 Wait          (00) -
> ...
> RAM                 : 07E23BF8 0A 07E23EE6    1200 Wait          PROC -
> input.device        : 07E08B22 14 07E09B28    4096 Wait          TASK -
> Background Process  : 07E1F268 04 07E8B94A   12000 Run    pv      (01) -

< interpret 07E1F268 tc
> FLAGS              : 00          | STATE              : 02          | IDNESTCNT        : FF
> TDNESTCNT          : FE          | SIGALLOC           : FF80FFFF    | SIGWAIT          : 00000020
> SIGRECV            : 20800100    | SIGEXCEPT        : 00000000    | ETask           : 80000000
> EXCEPTDATA       : 00000000    | EXCEPTCODE       : 00F83AEC    | TRAPDATA        : 00000000
> TRAPCODE           : 07E7BE2C    | SPREG              : 07E8B904    | SLOWER          : 07E88DE8
> SPUPPER            : 07E8BCC8    | MEMENTRY           : 07E1F2AA    | Userdata        : 000007E0

```

Related commands:

addstruct

remstruct

view

Related functions: peek() apeek() stsize()

Related lists: stru

Related tutor chapters: Looking at things

1.60 Command Reference : kill

Kill <task>|<crash node>

Cancel the specified task. This command works even if the task was frozen.

If the task you want to kill has crashed, PowerVisor will also remove the corresponding crash node. You can also kill a crashed task with a pointer to the crash node instead of the task node.

Do not kill a debug task. Remove this with the

debug
command.

Note that 'kill' will also try to remove all windows and screens belonging to the task.

Note that it is very dangerous to kill a task while it is using some functions from the dos.library.

'kill' uses autodefult to the 'task' list for the first argument.

Related commands:

debug

freeze

Related lists: task crsh

1.61 Command Reference : led

LEd

Use this command to toggle the powered led on or off. This is useful when a program is crashed or when you are using the led monitor.

Related commands:

addfunc
Related lists: func

1.62 Command Reference : libfunc

LIBFunc <library> <offset>

This command shows you the name of the library function corresponding with a library and an offset (offset must be negative). You must have loaded the corresponding fd-file first. Note that only the 16 least significant bits of <offset> are used so it is safe to use \$ffe2 for example.

This command looks a bit like the reverse of
libinfo
.

'libfunc' uses autodefaut to the 'libs' list for the <library> argument.

This command returns a string if called from ARexx.

Related commands:

libinfo

loadfd

unloadfd
Related lists: fdfi libs

1.63 Command Reference : libinfo

LIBInfo <library function name>

This command shows you the library, the offset and the register usage for a library function. You must have loaded the corresponding fd-file

first.

```
< loadfd exec fd:exec_lib.fd <enter>
> ...
```

```
< libinfo putmsg <enter>
> 07E007CC -366 (A0,A1)
```

Related commands:

```
    loadfd

    unloadfd

    libfunc
Related lists:  fdfi
```

Related tutor chapters: Looking at things

1.64 Command Reference : list

```
List [<list>]
```

With arguments this command lists the current list. With an argument 'list' lists <list> :-)

Related commands:

```
    info
Related tutor chapters: List Reference Getting Started
```

1.65 Command Reference : llist

```
LList <list> ['start']
```

Traverse a system list and print all nodes in the list. If 'start' is specified, 'LList' will start listing from the start of the list.

You can type really anything for the 'start' argument. The simple presence of an extra argument is enough.

Example :

```
< list port <enter>
> MsgPort node name      : Node      Pri SigBit SigTask
> -----
> REXX                    : 07E444A4 00          31 07E51438
> AREXX                   : 07E51CC8 00          30 07E51438
```

```
> AddTools by Steve Ti: 07E42A50 00      31 07E70C98
> PowerVisor-port      : 07E7C6F6 00      1 00000000
> REXX_POWERVISOR     : 07E22098 00      24 07E1F268
> * Blank_Port        : 07E43390 00      30 07E73E28
> IPrefs.rendezvous   : 07E227F0 E2      31 07E28330
> SetPatch Port       : 07E227C0 9C       0 00000000
```

```
< llist port:rexx_powervisor <enter>
> Node name           : Node      Pri
> -----
> * Blank_Port       : 07E43390 00
> IPrefs.rendezvous : 07E227F0 E2
> SetPatch Port      : 07E227C0 9C
```

```
< llist port:rexx_powervisor start <enter>
> Node name           : Node      Pri
> -----
> REXX                : 07E444A4 00
> AREXX               : 07E51CC8 00
> AddTools by Steve Ti: 07E42A50 00
> PowerVisor-port     : 07E7C6F6 00
> REXX_POWERVISOR     : 07E22098 00
> * Blank_Port        : 07E43390 00
> IPrefs.rendezvous   : 07E227F0 E2
> SetPatch Port       : 07E227C0 9C
```

Related commands:

```
list
Related tutor chapters: Looking at things
```

1.66 Command Reference : load

```
<bytes loaded> <- LOAd <filename> <start> [<max bytes>]
```

Load a file into memory. Only <max bytes> are read in if specified.
Please allocate the memory you use.

This command displays the actual number of bytes read.

Example :

```
< pointer=alloc(n,10000) <enter>

< load s:startup-sequence pointer 10000 <enter>
> 0000066C , 1644

< disp pointer <enter>
> 07EA7E4A , 132808266
```

You can free your memory later with the `free()` function. PowerVisor will automatically free this memory when you quit or use the
cleanup

```
command.
```

Related commands:

```
save
```

```
cleanup
```

```
Related functions: free() alloc()
```

Related tutor chapters: Scripts

1.67 Command Reference : loadfd

```
RC,<number of functions> <- LOADFd <library> <file-name>
```

This command loads a fd-file in memory. After you have loaded an fd-file you can use the library functions defined in it.

PowerVisor uses fd-files for the following features :

- You can call library functions defined in the fd-file. These library functions can be called as you would call them using C
- PowerVisor will know how to display library functions when you are debugging. This is very useful
- You can use all loaded functions with the

```
addfunc
command
```
- You can ask information about all loaded library functions with the

```
libfunc
and
libinfo
commands
```

'loadfd' will do nothing when the fd-file is already loaded in memory. You can find all loaded fd-files in the 'FdFi' list.

'rc' contains the pointer to the loaded fd-file node in the 'FdFi' list. <number of functions> is equal to the number of functions actually loaded. 'rc' will be equal to -1 when the fd-file already existed.

Example :

```
< loadfd exec fd:exec_lib.fd <enter>
> New functions: 0000007E,126

< libinfo allocmem <enter>
> 07E007D8 -198 (D0,D1)
```

Related commands:

```
unloadfd
```

```
libinfo
libfunc
addfunc
Related lists:  fdfi
```

1.68 Command Reference : loadtags

```
LOADTags <file> <base>
```

Load tags from a file to the current tag list. All tags in the file are added to the tags in the current tag list. When an old tag collides with a new tag, the old tag will be removed (two tags collide when they use the same address).

If the tagfile contains structures (type 'ST') you must load these structure in memory (with `addstruct`) before loading the tags. Otherwise the type of the tag will be changed to Long/Ascii ('LA') and you will get a warning :

```
'Warning ! Unknown structure types have been changed to LA !'
```

<base> is a pointer that you can use to relocate tags. A tag file also contains a base. When the base in the tag file and <base> are equal the tags will be on the same position as when they were saved. <base> is useful when you want to pause your work and have to reload them at another time. Since you can't always make sure that things are on the same position you will have to load the tags relative to some base.

Related commands:

```
savetags
addtag
remtag
cleartags
view
tg
usetag
checktag
tags
```

```
addstruct
Related functions: taglist()
```

Related tutor chapters: Looking at things

1.69 Command Reference : locate

```
LOCAtE <x> [<y>]
```

Adjust the current location on the current logical window.

Example :

```
< locate 0,0 <enter>
< disp 3 <enter>
> 00000003 , 3
```

Related commands:

```
home
cls
print
current
Related functions: getx()  gety()  getchar()  lines()  cols()
getlwin()
```

Related lists: lwin

Related tutor chapters: Screens and windows

1.70 Command Reference : log

```
LOG [<logical window> <filename>]
```

This command enables or disables the logging of all output in a logical window to a file. PowerVisor only supports one log file. If you open one for a logical window, PV will automatically close the other log file (if there is one).

'log' uses autodefaut to the 'lwin' list for the first argument.

You can disable (and close) command logging if you give no arguments to this command.

You can also use the
to

command to make a temporary log for one command (or a group of commands).

When you use the '-' prefix in front of the commandline, PowerVisor will show no output on the current logical window. The output will only go to the file. When you use the '~' prefix in front of the commandline, PowerVisor will not show the feedback line on the screen (and also not in the file).

Related commands:

to
Related lists: lwin

Related tutor chapters: Screens and windows

1.71 Command Reference : memory

Memory [<start> [<bytes>]]

This command shows memory beginning at <start>. <bytes> bytes are shown.

With no arguments this command continues the memory list.

<bytes> is 320 by default.

PowerVisor remembers the last number of bytes used with the command (and the

view
command) and uses this number as the new default number of <bytes> for the following 'memory' (or 'view') commands.

Use the

mode
command to install preferences for list memory:

| | |
|------------|---------------------------------|
| mode byte | for byte grouping |
| mode word | for word grouping |
| mode long | for longword grouping (default) |
| mode ascii | for ascii viewing |

Look at the

view
command for a more powerful dump routine.

If you press <enter> after a 'memory' command, the listing will continue.

Related commands:

view

unasm

mode

Related functions: `lastmem()` `lastbytes()`

Related tutor chapters: Looking at things

1.72 Command Reference : memtask

MEMTask <task>

Show memory for a task. This is the memory which is allocated via AllocEntry and is attached to the task.

'memtask' uses autodefault for the 'task' list for the first argument.

Example :

```
< memtask powervisor <enter>
> 07EB4F28,132861736
> 07EB4F38          92
> 07EB4F40          4096
```

This means that there is one memory header node in the TC_MEMENTRY list of the task. This node contains two entries. One with 92 allocated bytes and one with 4096 allocated bytes. The first number in the output is the address of the allocated memory.

Related lists: `task`

Related tutor chapters: Looking at things

1.73 Command Reference : mmuregs

MMURegs

(only 68020 with 68851, 68030 or 68040)
Show all special mmu registers (except MMUSR).

If some register is not available on your Amiga, '(na)' is printed after the register name (for example, 'DRP' is only available on the 68851)

Example :

```
< mmuregs <enter>
> DRP : (na)
> CRP : 000F0002 07FFF140
> L/U bit is cleared
> LIMIT = 0000000F
```

```
> DT      = Valid 4 byte
> Table address = 07FFF140
> SRP    : 80000001  00000000
> L/U bit is set
> LIMIT = 00000000
> DT      = Page descriptor
> Table address = 00000000
> TC     : 80F08630
> Enable address translation
> Disable Supervisor Root Pointer (SRP)
> Disable Function Code Lookup (FCL)
> System page size      = FFFF8000
> Initial shift         = 00000000
> Table Index A (TIA) = 00000008
> Table Index B (TIB) = 00000006
> Table Index C (TIC) = 00000003
> Table Index D (TID) = 00000000
> TT0    : 04038207
> Log Address Base = 00000004
> Log Address Mask = 00000003
> TT register enabled
> No Cache Inhibit
> R/W set
> RWM cleared
> FC value for TT block = 00000000
> FC bits to be ignored = 00000007
> TT1    : 403F8107
> Log Address Base = 00000040
> Log Address Mask = 0000003F
> TT register enabled
> No Cache Inhibit
> R/W cleared
> RWM set
> FC value for TT block = 00000000
> FC bits to be ignored = 00000007
```

Related commands:

mmutree

mmurtest

mmuwtest

specregs

Related tutor chapters: Looking at things

1.74 Command Reference : mmureset

MMURESet

(only 68020 with 68851, 68030 or 68040)

This command resets all U and M flags in the MMU tree to false.

You can then use the

mmutree
command to examine which pages are
modified and used.

(Note this command does not support all possible mmu tables, therefore
it does not work in AmigaDOS 1.3)

Related commands:

mmutree

mmuregs

Related tutor chapters: Looking at things

1.75 Command Reference : mmurtest

MMURTest <address>

(only 68020 with 68851, 68030 or 68040)
Test an address for read access in MMU tree.
MMUSR is dumped. (does not work yet)

Related commands:

mmutree

mmuregs

mmuwtest

specregs

Related tutor chapters: Looking at things

1.76 Command Reference : mmutree

MMutree

(only 68020 with 68851, 68030 or 68040)
This command shows the current MMU tree (CRP only).

FC code trees are not implemented yet.
8 byte format pages are not implemented yet.
indirect pages are not implemented yet.

Example :

```
< mmutree <enter>
> 00000000    4 BYTE (imuw)  Log: 00000000 # 00000000
> 07FFF140    4 BYTE (imUw)  Log: 00000000 # 01000000
```

```

> 07FFF180      PAGE      (IMUw)  Log: 00000000 # 00040000  -> 00000000
> 07FFF184      PAGE      (IMUw)  Log: 00040000 # 00040000  -> 00040000
> 07FFF188      PAGE      (IMUw)  Log: 00080000 # 00040000  -> 00080000
> ...
> 07FFF268      PAGE      (IMUw)  Log: 00E80000 # 00040000  -> 00E80000
> 07FFF26C      PAGE      (IMUw)  Log: 00EC0000 # 00040000  -> 00EC0000
> 07FFF270      PAGE      (iMUw)  Log: 00F00000 # 00040000  -> 00F00000
> 07FFF274      PAGE      (iMUw)  Log: 00F40000 # 00040000  -> 00F40000
> 07FFF278      PAGE      (iMUw)  Log: 00F80000 # 00040000  -> 07F80000
> 07FFF27C      PAGE      (iMUw)  Log: 00FC0000 # 00040000  -> 07FC0000
> 07FFF144      PAGE      (iMUw)  Log: 01000000 # 01000000  -> 01000000
> 07FFF148      PAGE      (iMUw)  Log: 02000000 # 01000000  -> 02000000
> 07FFF14C      PAGE      (iMUw)  Log: 03000000 # 01000000  -> 03000000
> 07FFF150      PAGE      (iMUw)  Log: 04000000 # 01000000  -> 04000000
> 07FFF154      PAGE      (iMUw)  Log: 05000000 # 01000000  -> 05000000
> 07FFF158      PAGE      (iMUw)  Log: 06000000 # 01000000  -> 06000000
> 07FFF15C      4 BYTE (imUw)  Log: 07000000 # 01000000
> 07FFF280      INV       (imuw)  Log: 07000000 # 00040000
> 07FFF284      INV       (imuw)  Log: 07040000 # 00040000
> 07FFF288      INV       (imuw)  Log: 07080000 # 00040000
> ...
> 07FFF344      INV       (imuw)  Log: 07C40000 # 00040000
> 07FFF348      INV       (imuw)  Log: 07C80000 # 00040000
> 07FFF34C      INV       (imuw)  Log: 07CC0000 # 00040000
> 07FFF350      PAGE      (iMUw)  Log: 07D00000 # 00040000  -> 07D00000
> 07FFF354      INV       (imuw)  Log: 07D40000 # 00040000
> 07FFF358      INV       (imuw)  Log: 07D80000 # 00040000
> 07FFF35C      INV       (imuw)  Log: 07DC0000 # 00040000
> 07FFF360      PAGE      (iMUw)  Log: 07E00000 # 00040000  -> 07E00000
> 07FFF364      PAGE      (iMUw)  Log: 07E40000 # 00040000  -> 07E40000
> 07FFF368      PAGE      (iMUw)  Log: 07E80000 # 00040000  -> 07E80000
> 07FFF36C      PAGE      (iMUw)  Log: 07EC0000 # 00040000  -> 07EC0000
> 07FFF370      PAGE      (iMUw)  Log: 07F00000 # 00040000  -> 07F00000
> 07FFF374      PAGE      (iMUw)  Log: 07F40000 # 00040000  -> 07F40000
> 07FFF378      PAGE      (iMUw)  Log: 07F80000 # 00040000  -> 07F80000
> 07FFF37C      PAGE      (iMUw)  Log: 07FC0000 # 00040000  -> 07FC0000
> 07FFF160      PAGE      (iMUw)  Log: 08000000 # 01000000  -> 08000000
> 07FFF164      PAGE      (iMUw)  Log: 09000000 # 01000000  -> 09000000
> 07FFF168      PAGE      (iMUw)  Log: 0A000000 # 01000000  -> 0A000000
> 07FFF16C      PAGE      (iMUw)  Log: 0B000000 # 01000000  -> 0B000000
> 07FFF170      PAGE      (iMUw)  Log: 0C000000 # 01000000  -> 0C000000
> 07FFF174      PAGE      (iMUw)  Log: 0D000000 # 01000000  -> 0D000000
> 07FFF178      PAGE      (iMUw)  Log: 0E000000 # 01000000  -> 0E000000

```

Some entries explained :

```
> 07FFF140      4 BYTE (imUw)  Log: 00000000 # 01000000
```

```

Address for this mmu entry is 07FFF140
It describes a 4 BYTE page descriptor
The descriptors are not invalid (i)
The descriptors are not modified (m)
The descriptors are used (U)
The descriptors are not write protected (w)
Logical address is 00000000
The page describes 01000000 bytes of memory

```

```
> 07FFF27C          PAGE    (iMUW)  Log: 00FC0000 # 00040000  -> 07FC0000
```

```
Address for this mmu entry is 07FFF27C
It describes a PAGE
The page is not invalid (i)
The page is modified (M)
The page is used (U)
The page is write protected (W)
Logical address is 00FC0000 (this is in pseudo ROM on an Amiga 3000)
The page describes 00040000 bytes of memory
The page is mapped to the 07FC0000 physical address (fast RAM)
```

Related commands:

```
mmuregs
mmurtest
mmuwtest
specregs
mmureset
Related tutor chapters: Looking at things
```

1.77 Command Reference : mmuwtest

```
MMUWtest <address>
```

```
(only 68020 with 68851, 68030 or 68040)
Test an address for write access in MMU tree.
MMUSR is dumped. (does not work yet)
```

Related commands:

```
mmutree
mmuregs
mmurtest
specregs
Related tutor chapters: Looking at things
```

1.78 Command Reference : mode

```
MOde <mode argument> {<mode argument>...}
```

```
Install preferences for PowerVisor.
```

The following arguments are supported:

| | |
|-----------|--|
| pal | set monitor to pal (only AmigaDOS 2.0) the non-interlaced resolution is 640x256 and the interlaced resolution is 640x512. This resolution will be bigger if you use overscan. |
| ntsc | set monitor to ntsc (only AmigaDOS 2.0) non-interlaced : 640x200 interlaced : 640x400 |
| vga | set monitor to vga (only AmigaDOS 2.0 and new denise) non-interlaced : 640x480 interlaced : 640x960 |
| vikings | set monitor to a2024 (only AmigaDOS 2.0) resolution : 1024x1008 |
| lace | use interlace |
| nolace | no interlace (default) |
| fancy | use two bitplanes for the PowerVisor screen (default) |
| nofancy | use only one bitplane |
| sbottom | include the size gadget in the bottom border. This means that you loose a line but you gain some columns (default) |
| nosbottom | include the size gadget in the right border of the window. You loose some columns but you gain a line or so |
| space | add a space after a snapped word (default) |
| nospace | don't add a space. Simply snap the word as it is |
| lonespc | snap a space if you click on an empty place in a logical window |
| nolonespc | don't snap a space (default) |
| shex | show hex words when disassembling instructions. The disadvantage is that these words could overwrite the right side of the symbolname if present (default) |
| noshex | don't show hex words. Symbols will be completely visible |
| dec | display all printed integers as decimal only |
| hex | display all printed integers as hexadecimal only |
| hexdec | first display hex, than display decimal (default) |
| more | enable -MORE- check for the 'Main' logical window (default) |
| nomore | disable -MORE- check |
| auto | perform an automatic list whenever the current list changes |
| noauto | don't do this (default) |
| byte | list memory as bytes (for the memory command) |
| word | list memory as words |
| long | list memory as longs (default) |
| ascii | list memory as ascii |
| fb | feedback each command as it is typed in by the user on the current logical window (default) |
| nofb | don't do this |

- `patch` patch the Exec AddTask function. When this function is patched by PowerVisor crashtrapping will work better for all new tasks created after the patch is applied. This is recommended if you use resident breakpoints (see the Debugging chapter). Note that it is not safe to run other debuggers (like CodeProbe or MonAm) when the patch is applied. They will probably crash when you try to trace with them. There will (probably) be no problems if you start the other debugger and load the debug program with this debugger BEFORE you apply the patch (before you start PowerVisor or before you type 'mode patch'). (default)
See also the
 `crash`
 `command`
- `nopatch` Don't patch the Exec AddTask function. When the AddTask function is not patched, PowerVisor will trap a crash a bit later (too late if you plan to use resident breakpoints). With the patch applied PowerVisor traps crashes just on the spot while if the patch is not applied PowerVisor will only trap the crash just before the guru would normally arrive (you will even have to press 'cancel' on the 'task-held' requester before PowerVisor notices the crash). But 'mode nopatch' is the only safe way to run other debuggers concurrently with PowerVisor.
- `intui` if this option is set, PowerVisor will also open a physical window (or Intuition window) everytime you open one of the standard logical windows ('Extra', 'Debug', ...) with the standard commands (
 `xwin`
 ,
 `dwin`
 , ...) (not with
 `openlw`
). This is useful if
you prefer to work with Intuition windows instead of PowerVisor logical windows. The logical window is of course opened in this physical window (with the same name).
- `nointui` Simply open each standard logical window in the 'Main' physical window (default)

You can set and examine the 'mode' variable. This is useful for scripts (for example to remember the current settings so that the script can restore them later).

When you have installed everything as you like it best you can make the new values default with the
 `saveconfig`
 `command`.

Example :

```
< mode byte dec <enter>
```

```
< d 4 <enter>
```

```
> 4
```

```
< m 0 <enter>
```

```
> 00000000: 00 00 00 00 07 E0 07 CC 00 F8 08 34 00 F8 0B 16 .....4....
```

```
> 00000010: 00 F8 0A DA 00 F8 0A DC 00 F8 0A DE 00 F8 0A E0 .....
```

```
> 00000020: 00 F8 0C 00 00 F8 0A E4 00 F8 0A E7 00 F8 0A E8 .....
```

```
> 00000030: 00 F8 0A EA 00 F8 0A EC 00 F8 0A EE 00 F8 0A F0 .....
```

```
> 00000040: 00 F8 0A F2 00 F8 0A F4 00 F8 0A F6 00 F8 0A F8 .....
```

```
> ...
```

```
< mode long hexdec <enter>
```

```
< d 4 <enter>
```

```
> 00000004,4
```

```
< m 0 <enter>
```

```
> 00000000: 00000000 07E007CC 00F80834 00F80B16 .....4....
```

```
> 00000010: 00F80ADA 00F80ADC 00F80ADE 00F80AE0 .....
```

```
> 00000020: 00F80C00 00F80AE4 00F80AE7 00F80AE8 .....
```

```
> 00000030: 00F80AEA 00F80AEC 00F80AEE 00F80AF0 .....
```

```
> 00000040: 00F80AF2 00F80AF4 00F80AF6 00F80AF8 .....
```

```
> 00000050: 00F80AFA 00F80AFC 00F80AFE 00F80B00 .....
```

```
> 00000060: 00F80B02 00F810F4 00F81152 00F81188 .....R....
```

```
> 00000070: 00F811E6 00F8127C 00F812C6 00F81310 .....|.....
```

```
> 00000080: 00F80B70 00F80B72 00F80B74 00F80B76 ...p...r...t...v
```

```
> 00000090: 00F80B78 00F80B7A 00F80B7C 00F80B7E ...x...z...|...~
```

```
> 000000A0: 00F80B80 00F80B82 00F80B84 00F80B86 .....
```

```
> 000000B0: 00F80B88 00F80B8A 00F80B8C 00F80B8E .....
```

```
> 000000C0: 00F80B90 00F80B92 00F80B94 00F80B96 .....
```

```
> 000000D0: 00F80B98 00F80B9A 00F80B9C 00F80B9E .....
```

```
> 000000E0: 00F80BA0 00F80BA2 00F80BA4 00F80BA6 .....
```

```
> 000000F0: 00F80BA8 00F80BAA 00F80BAC 00F80BAE .....
```

```
> 00000100: 80000005 07E08B22 66FFE6F7 00000000 ..... "f.....
```

```
> 00000110: 66FF66FA 66FB667F 66FFA67F 66FF66F1 f.f.f.ff..f.f.
```

```
> 00000120: 66FFF6FB 66F7E6DF 66FF663F 66FF66F7 f...f...f.f?f.f.
```

```
> 00000130: 66FF66F9 64FF66FF 66FF66FF 66DFA6E7 f.f.d.f.f.f.f...
```

Related commands:

```
saveconfig
```

```
prefs
```

Related tutor chapters: Installing PowerVisor

1.79 Command Reference : move

```
MOVE <physical window> <x> <y>
```

Move the physical window to a specified position. This command only works

if the physical window is a non-backdrop window.

You can move PowerVisor to another screen with the
screen
command.

You can of course also move the PowerVisor window using the drag gadget.

'move' uses autodefault to the 'pwin' list for the first argument.

Related commands:

screen

size

Related lists: pwin

Related tutor chapters: Screens and windows

1.80 Command Reference : next

```
RC,<address> <- Next
```

Continue searching at the last position.

This command prints 0 if not found.

You can use the lastfound() function to see where 'next' will continue its search.

Related commands:

search

copy

fill

Related functions: lastfound()

1.81 Command Reference : on

```
ON <logical window> <command>
```

With this command you can execute an other command, so that it's output appears on the logical window of your choice (except 'Debug' and 'Source'). This command temporary sets the current window to <logical window>.

'on' uses autodefault to the 'lwin' list for the first argument.

```
on <log win> <command>
```

is the same as

```
current <log win>
<command>
current <previous log win>
```

Example :

open 'Extra' logical window :

```
< xwin <enter>
```

execute a list on that window :

```
< on extra list task <enter>
> ...
```

Output appears on 'Extra'.

Using the group operator you can execute more commands at once :

```
< on extra {disp 1;disp 2;disp 3} <enter>
> 00000001 , 1
> 00000002 , 2
> 00000003 , 3
```

appears on 'Extra'.

You can also execute a command in a string :

Wait for input from user :

```
< scan <enter>
```

Type command (at the input prompt = '?????') :

```
< disp 4 <enter>
```

```
< on extra #input <enter>
> 00000004 , 4
```

Related commands:

xwin

current

openlw

closelw

Related functions: getlwin()

Related lists: lwin

Related tutor chapters: Screens and windows

1.82 Command Reference : opendev

```
RC,<pvdevice> <- Opendev <device name> [<unit> [<flags>]]
```

Open a device for use with the
closedev

```
'
devinfo
and
devcmd
commands.
```

The result (in RC) is a pointer to a block containing the pointer to the port and the pointer to the IORequest (256 bytes big) in that order. We call this block a PVDevice.

Use this block as the argument to
closedev

```
'
devinfo
and
devcmd
.
```

Example :

Open the device :

```
< dev={opendev "trackdisk.device"} <enter>
```

Put the drive motor on :

```
< devcmd dev 9 0 1 <enter>
```

Put the drive motor off :

```
< devcmd dev 9 0 0 <enter>
```

Ask more information :

```
< devinfo dev <enter>
```

```
> MsgPort node name      : Node      Pri SigBit SigTask
>                          : 07E9D2A0 00      20 07EB5948
>
> IORequest      : 07E9E130 | Succ      : 00000000 | Pred      : 00000000
> Type           : 05      | Pri        : 00      |
> Name           :
> ReplyPort      : 07E9D2A0 | MN_Length : 0100    | Device     : 07E077AC
> Unit           : 07E0C5A0 | Command   : 0000    | Flags      : 00
> Error          : 00      | Actual    : 00000000 | Length     : 00000000
> Data           : 00000000 | Offset    : 00000000 |
```

Close the device :

```
< closedev dev <enter>
```

Related commands:

```
closedev
devcmd
devinfo
```

1.83 Command Reference : openlw

```
RC,<lwin> <- OPENLw <physical window> <logwin name> <cols> < ←
rows>
[<brother> <where> [<number of columns or lines>]]
```

Open a logical window on a physical window. If the physical window is empty you need not specify the two last arguments. Otherwise <brother> is the logical window which will be your brother and <where> specifies where our new logical window should appear relative to the <brother>. The <where> string can be like :

```
u    above brother
d    below brother
r    right from brother
l    left from brother
pd   take parent from brother and appear below this box
pppr take parent from parent from parent and appear right from this box
...
```

'openlw' uses autodefaut to the 'pwin' list for the <physical window> arg.
'openlw' uses autodefaut to the 'lwin' list for the <brother> argument.

Note that you can open standard physical windows with this command as well, instead of using the predefined commands (xwin,rwin,awin,owin,dwin,swin).

If <number of columns or lines> is specified it is used as the number of lines or columns for the new logical window (<number of columns or lines> is interpreted as <number of columns> if the new window is positioned left or right of <brother>, otherwise <number of columns or lines> is interpreted as <number of lines>).

'rc' and <lwin> are the pointer to the new logical window.

Example :

Open the 'Extra' logical window at the left of the 'Main' logical window :

```
< openlw main Extra 80 40 main l <enter>
```

And to close the logical window :

```
< closelw extra <enter>
or
< xwin <enter>
```

Related commands:

```
    closelw
    awin
    rwin
    owin
    dwin
    swin
    xwin
    openpw
    closepw
Related lists:  lwin  pwin
```

Related tutor chapters: Screens and windows

1.84 Command Reference : openpw

```
RC,<pwin> <- OPENPw <physical window name> <x> <y> <w> <y>
```

Open a physical window. It will be empty (no logical windows).
You can move and size this window using

```
    move
    and
    size
. When
```

you use the

```
    screen
    command to move PowerVisor to another screen,
```

all physical windows will automatically move together with the
'Main' physical window.

You can only open 5 additional physical windows since there are only
5 signals left. In a later version this limitation could be removed.

'rc' and <pwin> are the pointer to the new physical window.

Related commands:

```
    closepw
    openlw
    closelw
Related lists:  pwin
```

Related tutor chapters: Screens and windows

1.85 Command Reference : owin

OWin [<number of lines>]

Open/close the PortPrint window. When the 'PPrint' logical window is open, PowerVisor will use it for all PortPrint output. Otherwise the current logical window is the one that will receive the output.

Normally the height of the new logical window is 30 % of the total physical window height ('Main' is the physical window for all standard logical windows). However, if you specify <number of lines>, the logical window will be opened with <number of lines> visible lines (This is the number of lines when the default PowerVisor font is used).

By default the 'PPrint' logical window has the following characteristics :

- Number of columns is fixed and equal to the maximum number of columns visible at the time the logical window is created
- Number of rows is fixed and is always equal to 50
- -MORE- checking is disabled
- Interrupt/Pause checking is disabled
- Home position is top-visible
- Auto Output Snap is off

You can change these characteristics with the

```
prefs
command.
```

Note that if the 'intui' mode flag is one (this is off by default, see the

```
mode
command) the logical window will be opened on a new physical ↔
window.
```

<number of lines> is ignored in that case.

Related commands:

```
rwin
```

```
dwin
```

```
swin
```

```
awin
```

```
xwin
```

```
fit
```

```
colrow
```

```
prefs
```

```
mode
Related lists: lwin
```

Related tutor chapters: Screens and windows

1.86 Command Reference : owner

```
OWNer <address>
```

This command tries to see who is the owner of the address you specify. This command is not completely ready but it is safe to use.

At this moment the 'owner' command searches the task list to see if it belongs to a task or process. The stack, seglists, task structure, process structure and cli structure are checked. In future more checks will be made.

Example :

```
< l task <enter>
> Task node name      : Node      Pri StackPtr  StackS Stat Command      Acc
> -----
> Background Process : 07E4F080 00 07E6D640   4096 Rdy  clock      (04) -
> Background Process : 07E28330 00 07E2D500   4096 Wait iprefs     (02) -
> REXXMaster          : 07E51438 04 07E51C7A   2048 Wait                (00) -
> SYS:System/CLI     : 07E45DC0 00 07E46CFE   4096 Wait                (00) -
> ...
> PowerSnap 1.0 by Nic: 07E629C0 05 07E6320A   2000 Wait                PROC -
> Background Process : 07E70C98 00 07E6E8EA   4096 Wait addtools   (07) -
> input.device        : 07E08B22 14 07E09B28   4096 Wait                TASK -
> RAM                 : 07E23BF8 0A 07E23EE6   1200 Wait                PROC -
> Background Process : 07E1F268 04 07E8BB76  12000 Run  pv         (01) -

< owner task:rexxmaster+6
> Found in TCB
> REXXMaster          : 07E51438 04 07E51C7A   2048 Wait                (00) -
```

(TCB is task control block)

Related tutor chapters: Looking at things

1.87 Command Reference : pathname

```
PAthname <lock>
```

This command prints the pathname for a lock. If <lock> does not point to a lock, 'pathname' prints an error. Note that <lock> must be an APTR and

not a BPTR !

This command returns a string if used from ARexx.

Related commands:

```
unlock
Related lists: lock  files
```

1.88 Command Reference : prefs

```
PREfs ('history' | 'key' | 'screen' | 'stack' | 'logwin' | ' ←
linelen' |
'debug' | 'dmode' | 'pens' | 'font') [<arguments> ...]
```

You can set/get preferences with this command. All things you install with this command can be saved with the

```
saveconfig
command.
```

If you don't specify the optional arguments in the following templates, you will get the current values.

Warning ! Changing preferences values is not always safe. For some preferences (especially 'font' and 'screen') it is best to set the preferences,

```
saveconfig
them,
quit
PowerVisor and restart
```

PowerVisor. Only after a full restart will PowerVisor correctly account for all changes. 'history', 'key', 'stack', 'logwin', 'debug', 'dmode' and 'pens' are save. You may change them as much as you like, PowerVisor will not get confused.

Changing 'linelen' has no effect at all. You have to quit to see the changes.

The following preferences arguments are allowed :

- history [<history value>]
Install the maximum number of lines in the history. Default is 20

- key <key number> [<code> <qualifier>]

| nr | name | default key | code | qualifier |
|----|---------------------|-----------------------|------|-----------|
| 0 | interrupt key | <esc> | 045 | 0 |
| 1 | hot key | <r-shift>+<r-alt>+'/' | 03A | 022 |
| 2 | pause key | <r-alt>+<help> | 05F | 020 |
| 3 | cycle active logwin | <tab> | 042 | 0 |
| 4 | history up | <arrow up> | 04C | 0 |
| 5 | history down | <arrow down> | 04D | 0 |

- screen [<w> <h>]
Define the width and the height of the PowerVisor screen. If you use -1 for any of these parameters the default screen width or

height will be used.

If you have AmigaDOS 2.0 you can install a big screen. You can scroll in this screen by moving the mousepointer out of the visible area. The default width and height are :

-1,-1

- stack [<stack fail level>]
 - Set the amount of stackspace left before PowerVisor will halt the task and give a warning (only if account is on)
 - default value is 40
 - This value is also used by the stack command.

 - logwin <full standard logwin name> [<cols> <rows> <mask> <flags>]
 - supported logwins :
 - Main,Extra,Refresh,Debug,Rexx,PPrint
 - bits in flag :
 - 4 = -MORE- enabled
 - 32 = real-top
 - 64 = statusline off
 - 128 = interrupt off
 - 256 = auto output snap

 - linelen [<line length>]
 - Set the maximum length of the stringgadget commandline. This is also the maximum number of characters that may be used in scripts (not ARexx scripts).
 - default value is 400

 - debug [<instructions> <show previous instruction>]
 - <instructions> is the number of instructions to disassemble after each trace (default is 5)
 - if <show previous instruction> is 1, the previous instruction is disassembled (default is 1)

 - dmode 'n'|'r'|'c'|'f'
 - Set the information that should be displayed after a trace. This parameter is not used by the fullscreen debugger since the fullscreen debugger always shows all information.
 - n show no info at all. This is useful when you are using the fullscreen debugger and you do not want to be disturbed by output on the current logical window
 - r show only registers
 - c show only code
 - f show registers and code (default)

 - pens [<pen number> <pen color>]
 - With this command you can install all colors used in PowerVisor. There are 48 pens. The first 24 are for fancy screens (2 bitplanes) and the last 24 are for 1 bitplane screens. Only the first 21 pens are used for both fancy and no-fancy screens. All other pens are reserved for future use.
 - With no arguments this command lists all pens on two lines: the first line containing all pens for fancy screens and the second
-

line for no-fancy screens.

Here follow the currently defined pen numbers and their default color values. Add 24 to the pen number to get the no-fancy screen pen number (see the `Installing PowerVisor` chapter for the meaning of each pen).

| nr | name | default fancy | default no-fancy |
|----|----------------------|---------------|------------------|
| 0 | BoxBackground | 0 | 0 |
| 1 | LogWinBackground | 0 | 0 |
| 2 | NormalText | 1 | 1 |
| 3 | PromptText | 1 | 1 |
| 4 | StatusTextInactive | 1 | 1 |
| 5 | StatusTextActive | 2 | 0 |
| 6 | InActiveBar | 0 | 0 |
| 7 | ActiveBar | 3 | 1 |
| 8 | TopLeft3D | 2 | 1 |
| 9 | BottomRight3D | 1 | 1 |
| 10 | BoxLine | 1 | 1 |
| 11 | PositionBox | 0 | 0 |
| 12 | TopLeftBox | 1 | 1 |
| 13 | BottomRightBox | 2 | 1 |
| 14 | PositionIndicator | 3 | 1 |
| 15 | SGInactiveText | 3 | 1 |
| 16 | SGInactiveBackground | 0 | 0 |
| 17 | SGActiveText | 1 | 1 |
| 18 | SGActiveBackground | 0 | 0 |
| 19 | HilightPen | 2 | 0 |
| 20 | HilightBackPen | 0 | 1 |

- font [<size> <style> <flags>]

With this command you can install the default font used by PowerVisor. This is `topaz.font,8,0,0` by default. must always end with `'.font'`. This font is used for all logical windows, for the stringgadget, for the screen titlebar and for the logical window titlebars.

See the `Installing PowerVisor` chapter for more information.

Related commands:

`saveconfig`

`mode`

Related tutor chapters: `Installing PowerVisor` `Screens and windows` ↔

1.89 Command Reference : print

`PRint <string>`

Print a string on the current logical window. (Useful for scripts and

ARexx programs)

Example :

```
< print 'testing' <enter>
> testing
```

```
< print test <enter>
> test
```

To print a newline after the string, use:

```
< print 'testing\0a' <enter>
```

or

```
< print testing\0a <enter>
```

```
> testing
```

You can use the '\' for quoting characters too :

```
< print abc\ def\\"'\ the\ end\0a <enter>
> abc def\"' the end
```

or you can use the \() operator :

```
< print 'number : \ (1000+3)\0a' <enter>
> number : 1003
```

```
< print 'task : \( 'input.device',%08lx)\0a' <enter>
> task : 07E063A2
```

Related commands:

disp

locate

current

script

rx

Related functions: getlwin()

Related lists: lwin

Related tutor chapters: Getting Started

1.90 Command Reference : pvcall

```
<result> <- PVcall <number> [<arguments>]
```

Call internal PowerVisor functions. This command is only useful for the very experienced PowerVisor user. See the [The wizard corner](#) chapter for more info.

Related tutor chapters: [The wizard corner](#) [Scripts](#)

1.91 Command Reference : quit

Quit

Quit PowerVisor. Everything will be cleaned up. Frozen tasks are lost. Monitor functions will be cleaned. Crash trapping is disabled. Stack checking is disabled. All debug tasks are frozen. All FD-Files will be removed from memory. If one of your debug tasks is tracing 'Quit' will print an error message. First halt this task with 'trace h'.

Warning: Everything you allocated or opened using library functions will NOT be cleaned up. Remember to do it yourself.

All crashed tasks are left in memory. They will simply wait.

All freezed tasks are lost forever (and their memory too). UnFreeze or kill your tasks before you quit.

All memory allocated with the `alloc()` function is automatically freed (This also includes memory allocated with

```

    rblock
    )

```

All tasks you were debugging will be frozen.

Related commands:

`hold`

Related tutor chapters: [Getting Started](#)

1.92 Command Reference : rblock

```
RC,<address> <- RBlock <Unit number> <block number> [<address>]
```

Read a block from a disk. This command will allocate the memory for it if you do not specify <address>. The pointer to this memory will be stored in the 'rc' variable. You can read a block in your own memory if you specify the address. This address must be in chip ram. You can free the memory this command allocated with `free()` .

The memory allocated with this command is automatically freed when PowerVisor quits. You can also free this memory with the
 cleanup
 command.

Related commands:

wblock

cleanup

showalloc

Related functions: alloc() free()

1.93 Command Reference : refresh

Refresh [<refresh rate> <command>]

This command installs <command> to be executed every <refresh rate> IntuiTick (one IntuiTick is a tenth of a second).

With no arguments 'refresh' removes the refresh command.

Note that the output from <command> is send to the 'Refresh' logical window if it is open. Otherwise the output goes to the current logical window. Use the

rwin

command to open the 'Refresh'

window.

Example :

< rwin <enter>

< a=0 <enter>

< refresh 1 {home;disp a;a=a+1} <enter>

Look and admire the result ...

< refresh <enter>

You can also refresh a command from a string :

Wait for input from user :

< scan <enter>

Type command (at the input prompt = '?????') :

????< disp 4 <enter>

< refresh 10 #input <enter>

Related commands:

```

rwin

list

home

openlw

closelw
Related functions:  rfrate()  rfcmd()

```

Related lists: lwin

Related tutor chapters: Getting Started Screens and windows

1.94 Command Reference : regs

REGs <task>|<crash node>|<debug node>

Show the registers for a task, a crash node or a debug node.
When a task is crashed use the crash node pointer instead. If you don't do this, some register may contain wrong information.

Example :

```

< regs task:input.device <enter>
> input.device      : 07E08B22 14  07E09B28    4096 Wait          TASK -
> -----
> D0: 07E0F1B4    D1: 00000000    D2: 40000000    D3: 00008000
> D4: 00000000    D5: 00000000    D6: 80000000    D7: C0000000
> A0: 07E08ACC    A1: 07E08B22    A2: 07E0D7A6    A3: 07E09CB6
> A4: 07E09B82    A5: 07E00796    A6: 07E007CC
> PC: 00F80C14    SP: 07E09B6E    SR: 0010

```

Related commands:

```

fregs
Related lists:  task  crsh  dbug

```

1.95 Command Reference : remattach

REMAAttach <attach node>

Remove a macro.

'remattach' uses autodefaut to the 'attc' list for the first argument.

Example :

Go to the attachement list :

```
< attc <enter>
< list <enter>
```

```
> Node      Code Qualifier Command
> -----
> 00C184E0  81          2 'info task:'trackdisk.device' task
> 00C34268  80          0 'list'
```

< remattach 00c34268 <enter>

Related commands:

```
attach

list
Related lists: attc
```

Related tutor chapters: Installing PowerVisor Scripts

1.96 Command Reference : remclip

```
REMCLip <Clip name>
```

Remove a clip previously set with

```
clip
or with some other external ARexx
program.
```

Related commands:

```
clip

rx

assign
Related tutor chapters: Scripts
```

1.97 Command Reference : remcrash

```
REMCrash <crash node>
```

When a task crashes, PowerVisor makes a crash node. You can find this node in the Crsh list. You can remove this node with the remcrash command. Note that this command will not remove the task. The task will simply be left waiting for a signal that will never come.

Related lists: crsh task

1.98 Command Reference : remfunc

```
REMfunc <function monitor node>
```

Use this function to remove a patch you installed with 'addfunc'. Note that you must remove multiple patches of the same function in reverse order. Note that PowerVisor will give an error if you try to remove the oldest patch first.

Warning ! Be very careful when it is possible that some other program is also patching the function. There could be conflicts. PowerVisor tries to be friendly and checks everything, but you can't be sure that other programs are as friendly as PowerVisor.

You can find the nodes for the function monitor in the 'func' list

'remfunc' uses autodefaut to the 'func' list for the first argument.

Related commands:

```
addfunc  
Related lists: func
```

1.99 Command Reference : remhand

```
REMHand <input handler>
```

Remove an input handler. You can list the inpuhandlers in the 'IHan' list.

'remhand' uses autodefaut to the 'ihan' list for the first argument.

Related lists: ihan

1.100 Command Reference : remove

```
<node> <- REMOve <node>
```

Remove a node from a list. Be carefull with this command. No checking is done if you are really removing a node. The memory for this node is not freed (you can later include this node again in the list with the exec functions 'addhead', 'addtail' or 'enqueue').

1.101 Command Reference : remres

```
REMRes <resident pointer>
```

Remove a resident module from the 'resm' list.

'remres' uses autodefaut to the 'resm' list for the first argument.

Example :

```
< remres exec <enter>
```

Related lists: resm

1.102 Command Reference : remstruct

```
REMStruct <struct def pointer>
```

Unload a structure definition previously loaded with
addstruct

.

'remstruct' uses autodefaut to 'stru' for the first argument.

Related commands:

```
addstruct
```

```
interprete
```

```
view
```

```
Relate functions: peek() apeek() stsize()
```

Related lists: stru

Related tutor chapters: Looking at things

1.103 Command Reference : remtag

```
REMTag <address>
```

Remove the range of memory starting with <address> from the current tag list. If the range does not exist this command does nothing.

Example :

```
< addtag 1000 50 as <enter>
< ...
< remtag 1000 <enter>
```

Related commands:

```
    addtag
    cleartags
    loadtags
    savetags
    tags
    usetag
    tg
    checktag
    view
Related functions: taglist()
```

Related tutor chapters: Looking at things

1.104 Command Reference : remvar

```
REMVar {<variables>}
```

This command removes PowerVisor variables if they exist. 'Remvar' is very useful in scripts. If a variable on the commandline does not exist, 'remvar' will give NO error but simply continue with the other variables on the commandline. You can only remove variables. Functions, special variables and constants can't be removed with this command. 'rc' and 'error' are also private and can't be removed.

Example :

```
< myvar=1000 <enter>
< remvar myvar <enter>

< disp myvar <enter>
> Addressed element not found !
```

Related commands:

```
    vars
    assign
Related tutor chapters: Scripts
```

1.105 Command Reference : reqload

```
INPUT,<ptr to filename> <- REQLoad <title>
```

Ask the user for a filename with a filerequester. This command uses reqtools.library (V37 or higher) (© Nico François) if available, otherwise this command is equivalent to the

```
scan  
command.
```

The result of this command (in input), is a pointer to the file name (or 0 if the user pressed 'cancel'). This string is remembered until you quit PowerVisor or until you use another input command (

```
scan  
,  
reqload  
,  
  
reqsave  
or  
getstring  
).
```

This command returns a string if used from ARexx.

<title> is the title to be put in the requester window

The filerequester is a 'load' requester. This means that you can double click on filenames.

Related commands:

```
reqsave  
  
request  
  
getstring  
  
scan
```

1.106 Command Reference : reqsave

```
INPUT,<ptr to filename> <- REQSave <title>
```

Ask the user for a filename with a filerequester. This command uses reqtools.library (V37 or higher) (© Nico François) if available, otherwise this command is equivalent to the

```
scan  
command.
```

The result of this command (in input), is a pointer to the file name (or 0 if the user pressed 'cancel'). This string is remembered until you quit PowerVisor or until you use another input command (

```
scan
```

```

    ,
    , reload
    ,
    , reqsave
    , or
    , getstring
    , ).

```

This command returns a string if used from ARexx.

<title> is the title to be put in the requester window

The filerequester is a 'save' requester. This means that you can't double click on filenames.

Related commands:

```

    reload
    request
    getstring
    scan

```

1.107 Command Reference : request

```
<result> <- REQuest <body string> <gadget string> <argument>
```

Show a requester on the PowerVisor screen. This command uses reqtools.library (V37 or higher) (© Nico François) is available, otherwise this command is simulated using the 'key' function.

The result of this command is a number indicating the button that was pressed (this number is also what you should press on the keyboard if you don't have reqtools.library). The rightmost button is 0. All other buttons are numbered from left to right starting with 1.

<body string> is the string for the requester title bar.

<gadget string> is the string with all the button text below.

Note that you can use one % C-formatting character (optionally) in one of the above strings. If you do this <argument> is used for the value.

Note that <argument> is NOT an optional argument.

Example :

```
< result={request 'Body : %ld' 'LeftBut|MidBut|RightBut' 1001} <enter>
```

Related commands:

```
getstring
```

```
reqload  
  
reqsave  
Related functions: key()
```

1.108 Command Reference : resident

```
RC,<Pointer to code> <- RESIdent [<filename>]
```

The 'resident' command loads a given file (with 'LoadSeg') and stores a pointer to the start of the program in 'RC'. You can use this pointer with the

```
go  
command.
```

You can make ML scripts resident but you must make sure that the routines are pure.

If you give no argument to 'resident' you will get a list with all loaded code pointers.

Related commands:

```
unresident  
  
go  
  
script  
Related tutor chapters: Scripts
```

1.109 Command Reference : rwin

```
RWin [<number of lines>]
```

Open/close the refresh window. (required if you want to use the refresh command).

Normally the height of the new logical window is 30 % of the total physical window height ('Main' is the physical window for all standard logical windows). However, if you specify <number of lines>, the logical window will be opened with <number of lines> visible lines (This is the number of lines when the default PowerVisor font is used).

By default the 'Refresh' logical window has the following characteristics :

- Number of columns is fixed and equal to the maximum number of columns visible at the time the logical window is created
 - Number of rows is fixed and is always equal to 50
 - -MORE- checking is disabled
-

- Interrupt/Pause checking is disabled
- Home position is real-top
- Auto Output Snap is off

You can change these characteristics with the
prefs
command.

Note that if the 'intui' mode flag is one (this is off by default, see the

mode
command) the logical window will be opened on a new physical ↔
window.

<number of lines> is ignored in that case.

Related commands:

refresh

dwin

swin

xwin

awin

owin

fit

colrow

prefs

mode

Related lists: lwin

Related tutor chapters: Screens and windows

1.110 Command Reference : rx

RX <file name>

Execute an ARexx script. The default extension for ARexx scripts is 'pv'.
You do not need to type this extension unless you use a different one.

The name of the PowerVisor ARexx port is :

REXX_POWERVISOR

Example :

See the

assign
command

Related commands:

script

assign

clip

remclip

Related tutor chapters: Scripts

1.111 Command Reference : save

```
<bytes written> <- SAve <filename> <start> <bytes>
```

Save memory to disk.

This command displays the actual number of bytes written.

Example :

```
< save testfile 2000 1000 <enter>  
> 000003E8,1000
```

Related commands:

load

1.112 Command Reference : saveconfig

```
SAVEConfig
```

This commands saves the current

mode

and

prefs

settings to the file

s:PowerVisor-config. They will automatically be loaded when you start PowerVisor.

This command also remembers the state of all the standard logical windows (their position and if they are on a physical window or not) (Note that this feature is new for PowerVisor V1.13). This means that you can simply use the

screen

command and the mouse to position all the standard windows (see also the 'mode intuit' option) and 'saveconfig' will save the positions (Note that you still have to open them manually).

Related commands:

prefs

mode

Related tutor chapters: Installing PowerVisor

1.113 Command Reference : savetags

```
SAVETags <file> <base>
```

Save tags in the current tag list to a file.
<base> is simply saved in the file. You can use <base> later on when you reload the tags to relocate them.

Related commands:

loadtags

addtag

remtag

cleartags

view

tg

usetag

checktag

tags

Related functions: taglist()

Related tutor chapters: Looking at things

1.114 Command Reference : scan

```
INPUT,<ptr to inputline> <- SCAN [<number>]
```

Ask the user for input. This command is very useful for ARexx scripts. The result of this command (in input), is a pointer to the result string. This string is remembered until you quit PowerVisor or until you use another input command (

```

        scan
    ,
    reload
    ,
    reqsave
    or
    getstring
    ).

```

This command returns a string if used from ARexx.

Normally the prompt is '????'. If you want another 4 letter prompt you can use <number>.

Example :

```

< scan *"TEST" <enter>
TEST> This is a test <enter>

```

```

< memory input 20 <enter>
> 07EEBC82: 54686973 20697320 61207465 73740000      This is a test..
> 07EEBC92: 00000000                                ....

```

Related commands:

```

    getstring

    reload

    reqsave
Related functions:  key()

```

1.115 Command Reference : screen

SCREen [<screen>]

Move the PowerVisor window to another screen. If you want PowerVisor on its own screen, type 'screen' without arguments (this is default).

You can use the

```

    size
    command to change the size for this window (or you
can use the sizinggadget). You can use
    move
    to move the physical window.

```

'screen' uses autodefault to the 'scrs' list for the first argument.

If <screen> is 0 PowerVisor will move the 'Main' physical window on its own screen, but the window will be resizable and movable. This is useful if you want to customize your own design for PowerVisor.

If you want you can start with the PowerVisor window on the workbench

by default. Just type
 saveconfig
 when PowerVisor is on the WorkBench.
 'saveconfig' will also remember the size of the window.

Example :

```
< screen workbench <enter>

move PowerVisor to workbench screen

< screen <enter>

back to own screen
```

Related commands:

```
    size

    move

    prefs

    saveconfig
Related lists:  scrs  pwin
```

Related tutor chapters: Screens and windows

1.116 Command Reference : script

```
<result> <- SCRIPT <script file> [<commandline>]
```

The 'script' command executes <script file>.
 You can use comments in script files by preceding the line with ';'.

You can also execute machinelanguage scripts with this command.
 These machinelanguage scripts are normal executable files. You can
 write them in any language you wish as long as that language
 has AmigaDOS executable files as output format. Although other
 languages (like C) are possible we still call these scripts machinelanguage
 scripts or ML scripts.

When a ML script is executed the registers contain the following info :

```
a0=pointer to <commandline>
a1=pointer to the 'rc' variable. (You can use this to return something
    to PowerVisor)
a2=pointer to the PVCallTable.
the value in d0 is returned to PowerVisor
```

<result> is the value returned in d0 (if ML script).

When you try to execute a script, PowerVisor will first try to execute

the script in the current directory, if that does not succeed, PowerVisor will try the s:pv/ subdirectory. This is the recommended place for scripts.

Related commands:

rx

resident

unresident

go

Related tutor chapters: Scripts

1.117 Command Reference : scroll

```
SCROLL <logical window> <x> <y>
```

Scroll the logical window. <x> and <y> is the new top-left visible position. This command checks for illegal values.

'scroll' uses autodefaut to the 'lwin' list for the first argument.

Related lists: lwin

Related tutor chapters: Screens and windows

1.118 Command Reference : search

```
RC,<address> <- Search <start> <bytes> <string>
```

Search to a string in memory starting at <start>. Search until the string is found, or until you have searched <bytes> bytes.

Use the

next

command to continue the search.

You can use the lastfound() function to see where 'next' will continue its search.

Example :

```
< a=alloc(n,1000) <enter>
```

```
< fill a+100 4 'test' <enter>
```

```
< search a 1000 'test' <enter>
```

```
> 07E83756 , 132659030
```

Will search for the string "test" beginning at 'a'. If after 1000 bytes the string is not found, 0 is the result.

Related commands:

next

copy

fill

Related functions: lastfound()

1.119 Command Reference : setflags

```
RC,<oldflags> <- SETFLags <logical window> <mask> <flags>
```

Set flags for a logical window.

This command also displays the old flags and puts the result in 'rc'.

Bits in <mask> and <flags> :

```
4   = -MORE- enabled (1 is enabled)
32  = real-top (1 is real-top)
64  = statusline off (1 is off)
128 = interrupt off (1 is off)
256 = auto output snap (1 if on)
```

Note that it is generally better to use

prefs

for the standard logical

windows instead of 'setflags'. This is because the value made with 'setflags' are reset everytime a new logical window is created or another logical window disappears. The problem with 'prefs' is that you first have to reopen the logical window before it has effect. If you use both (you can make a script or alias for that) there is no problem.

'setflags' uses autodefaut to the 'lwin' list for the first argument.

Example :

```
< setflags main 32+4 32 <enter>
> 00000106 , 262
```

will make the logical window real-top and disableds -MORE- checking.
262 is the old value.

To get the current value, type :

```
< setflags main 0 0 <enter>
> 00000122 , 290
```

Related commands:

openlw

```
    closelw  
  
    awin  
  
    owin  
  
    rwin  
  
    dwin  
  
    swin  
  
    xwin  
  
    prefs  
Related lists:  lwin
```

Related tutor chapters: Screens and windows

1.120 Command Reference : setfont

```
SETfont <logical window> <fontname> <fontheight>
```

Set a font for a logical window. The font must be either memory resident or available in the 'fonts:' directory. Proportional fonts are not supported.

Note that this command is only temporary and only for the contents of a logical window (the text in the logical window). If you want another default font for all PowerVisor logical windows, string gadget, size bars, ... you must use 'prefs font'.

'setfont' uses autodefaut to the 'lwin' list for the first argument.

There are seven standard logical windows in the current release of PowerVisor, (you can open more if you want) :

```
Rexx      : rexx output window  
PPrint    : PortPrint output window  
Refresh   : refresh window  
Debug     : debugging window  
Extra     : extra window  
Main      : main window  
Source    : source window for source level debugger
```

See the 'lwin' list for all available logical windows. All these logical windows can use another font.

Example :

If the 'Extra' logical window is not already open, open it with :

```
< xwin <enter>
```

```
< setfont extra topaz.font 9 <enter>
```

Try the new font :

```
< on extra list task <enter>
```

```
> ... (in topaz 9)
```

Related commands:

xwin

dwin

swin

rwin

awin

owin

openlw

closelw

Related lists: lwin

Related tutor chapters: Screens and Windows

1.121 Command Reference : showalloc

SHowalloc

This command shows all memory blocks allocated with the `alloc()` function and the

`rblock`

command. All memory blocks that

are in this list will be automatically freed when PowerVisor quits or when you execute the

`cleanup`

command.

Example :

```
< a=alloc(n,1000) <enter>
```

```
< b=alloc(n,100) <enter>
```

```
< showalloc <enter>
```

```
> 07EA6912,132802834
```

```
> 07EA77D2,132806610
```

```
< cleanup <enter>
```

< showalloc <enter>

Related commands:

cleanup

rblock

Related functions: alloc() free() getsize() isalloc() ←
realloc()

1.122 Command Reference : size

Size <physical window> <x> <y>

Set the x and the y size (in pixels) for the physical window.

This command only works when the physical window is resizable (not a backdrop window).

You can move PowerVisor to another screen with the
screen
command.

You can of course also size the PowerVisor window using the size gadget.

'size' uses autodefaut to the 'pwin' list for the first argument.

Related commands:

screen

move

Related lists: pwin

Related tutor chapters: Screens and windows

1.123 Command Reference : source

SOURCE 'l' <filename> [<hunkaddress>] | 'w' <address> | 's' |
't' <tab size> | 'r' | 'c' | 'g' <line>

Control the source for the current debugtask. Note that the source for the current debug task is always displayed in the 'Source' logical window. You must compile or assemble your program with debug hunk information if you want to use this feature. PowerVisor currently understands the debug hunk format used by 'Macro68' (include the 'debug' statement in your source) and by 'SAS/C' (compile with '-d1', do not use any number other than 1!). This format is also compatible with the debug hunk format used by Devpac3. The 'source' command could work for other compilers too but this is not tested.

Note that if you have loaded the source for the current debug task you can use the linenumber operator '#'.

`source l <filename> [<hunkaddress>]`
Load the source for the current debug task.
If you give <hunkaddress>, PowerVisor will load the source for the given hunks. This is extremely useful when you have created a dummy debug task.
Note that <hunkaddress> is 4 more than the number given in the hunklist with the
 hunks
 command.
Note that <hunkaddress> is not optional when you are loading the source for a dummy debug task

`source w <address>`
Use this command to see in which source file and on which line a specific address is located

`source t <tab size>`
Set the tab size used for the source display. The default tab value is 8

`source s`
Show all sources for the current debug task

`source r`
Redisplay the source in the 'Source' logical window

`source c`
Clear all sources and unload them

`source g <line>`
Goto a line in the current loaded source. Note that you can also scroll in the current file with the mouse. Simply press the left mouse button in the first or the last line of the 'Source' logical window

Related commands:

debug

trace

break

duse

with

symbol

swin

Related functions: `getdebug()`

Related lists: `dbug`

Related tutor chapters: Debugging

1.124 Command Reference : specregs

SPecregs

(only 68020, 68030 or 68040)
Show all special 68020 registers.

Example :

```
< specregs <enter>
> MSP : 560F5B16
> ISP : 07E02228
> USP : 07E8BC64
> SFC : 00000007
> DFC : 00000007
> VBR : 00000000
> CACR : 00002111
>   Write Allocate set
>   Disable Data Burst
>   Clear Data Cache not set
>   Clear Entry in Data Cache not set
>   Freeze Data Cache not set
>   Enable Data Cache
>   Enable Instruction Burst
>   Clear Instruction Cache not set
>   Clear Entry in Instruction Cache not set
>   Freeze Instruction Cache not set
>   Enable Instruction Cache
> CAAR : B8F77BED
```

Related commands:

mmutree

mmuregs

mmurtest

mmuwtest

Related tutor chapters: Looking at things

1.125 Command Reference : speak

```
<value> <- SPEEk <address>
```

(only 68030 or 68040)
Peek a longword from memory. <address> is a PHYSICAL address. The MMU tree is completely ignored.

Example :

```
< speak 4 <enter>
> 07E007CC , 132122572
```

Related commands:

mmutree

spoke

Related tutor chapters: Looking at things

1.126 Command Reference : spoke

SPOke <address> <value>

(only 68030 or 68040)

Poke a longword in memory. <address> is a PHYSICAL address. The MMU tree is completely ignored.

Related commands:

mmutree

speek

Related tutor chapters: Looking at things

1.127 Command Reference : sprint

SPRint <string>

Print a string on a serial terminal (Useful for the
addfunc
command, for
example).

Example :

```
< sprint 'First : \ (1+1000), Then : \ (65,%1c)\0a' <enter>
SERIAL> First : 1001, Then : A
```

```
< sprint test <enter>
SERIAL> test
```

Related commands:

addfunc

1.128 Command Reference : stack

```
STack [<task> <micro seconds>]
```

Use this command to check stack usage for a specific task. You can only check one task at the time. With no arguments this command removes the stack checker.

'stack' uses the UNIT_MICROHZ timer device. This means that <micro seconds> must be greater or equal than 2. This command has a better check resolution than 'account' (if your <micro seconds> value is low enough).

'stack' freezes the task when a stack overflow is about to occur (see the

```
    prefs
```

```
    command for the minimum number of bytes allowed in the stack).
```

Note that this behaviour is different from

```
    account
```

```
    . Stack overflows
```

trapped with the 'account' stack checker are put in the 'crsh' (crash) list (This behaviour may change in future).

In addition to stack checking this command also computes the maximum stack usage for the task. You can display this maximum with the `getstack()` function.

'stack' uses autodefaut to the 'task' list for the first argument.

Related commands:

```
    prefs
```

```
    stack
```

```
Related functions:  getstack()
```

Related lists: crsh

1.129 Command Reference : string

```
<string> <- STRIng <string pointer>
```

This command simply evaluates its argument and returns it. This command is useful in ARexx if you want to convert a string pointer (a pointer to a string) to an ARexx string. This is because this function returns a string when used in ARexx

Related commands:

```
    assign
```

```
Related tutor chapters:  Scripts
```

1.130 Command Reference : swin

SWin [<number of lines>]

Open/close the source window. (required if you want to use sourcelevel debugging).

Normally the height of the new logical window is 30 % of the total physical window height ('Main' is the physical window for all standard logical windows). However, if you specify <number of lines>, the logical window will be opened with <number of lines> visible lines (This is the number of lines when the default PowerVisor font is used).

By default the 'Source' logical window has the following characteristics :

- Number of columns is autoscalable (-1)
- Number of rows is autoscalable (-1)
- -MORE- checking is disabled
- Interrupt/Pause checking is disabled
- Home position is real-top
- Auto Output Snap is off

You can change these characteristics with the
prefs
command.

You can't use
on
with the 'Source' logical window.

Note that if the 'intui' mode flag is one (this is off by default, see the
mode
command) the logical window will be opened on a new physical ↔
window.
<number of lines> is ignored in that case.

Related commands:

rwin

dwin

xwin

awin

owin

debug

prefs

source

mode

on

Related lists: lwin

Related tutor chapters: Screens and windows Debugging

1.131 Command Reference : symbol

```
Symbol 'l' <filename> [<hunkaddress>] | 'c' | 'a' <symbol> < ←
value> |
'r' <symbol> | 's'
```

Control the symboltable for the current debugtask.

symbol l <filename> [<hunkaddress>]

Load the symbols for the current debug task.

If you give <hunkaddress>, PowerVisor will load the symbols for the given hunks. This is extremely useful when you have created a dummy debug task.

Note that <hunkaddress> is 4 more than the number given in the hunklist with the

hunks

command.

Note that <hunkaddress> is not optional when you are loading symbols for a dummy debug task.

symbol c Clear all symbols for the current debug task.

symbol a <symbol> <value>

Add a symbol with a specified value the the symbol list for the current debug task.

symbol r <symbol>

Remove a symbol from the symbol list for the current debug task.

symbol s List all symbols for the current debug task.

Related commands:

debug

trace

break

duse

with

source

Related functions: getdebug()

Related lists: dbug

Related tutor chapters: Debugging

1.132 Command Reference : sync

SYNc

Use this command to synchronize PowerVisor with ARexx. Normally you can execute an ARexx script (with `rx`) and while this script is executing you can still use PowerVisor for other things. When you use this command, PowerVisor will disable user input. Only ARexx commands are accepted.

Do not forget to

```
async
in your ARexx script.
```

Related commands:

```
async
```

```
rx
```

Related tutor chapters: [Scripts](#)

1.133 Command Reference : tags

TAGs

List all tags in the current tag list.

Related commands:

```
addtag
```

```
remtag
```

```
cleartags
```

```
loadtags
```

```
savetags
```

```
usetag
```

```
tg
```

```
checktag
```

```
view
```

Related functions: `taglist()`

Related tutor chapters: [Looking at things](#)

1.134 Command Reference : taskpri

```
TASKPri <task ptr> <priority>
```

Set the priority for a task.

'taskpri' uses autodefault to the 'task' list for the first argument.

Example:

```
< taskpri task:test -5 <enter>
```

Related lists: task

1.135 Command Reference : tg

```
TG <number> <command>
```

Temporarily set the current tag list to <number> and execute the command.
<number> is in 0 .. 15.

Related commands:

```
usetag
```

```
addtag
```

```
remtag
```

```
tags
```

```
savetags
```

```
loadtags
```

```
view
```

Related functions: taglist()

Related tutor chapters: Looking at things

1.136 Command Reference : to

```
TO <file> <command>
```

Log the output of one command (or group) to a file. After the command has executed the previous log file (if any) is reinstalled.

Examples :

```
< to ram:MyOutputFile list task <enter>
> ...
```

The output will still appear on the current logical window. This command temporarily works like the

```
log
command. The real log file is restored
after this command exits.
```

If you only want output in a file you can use :

```
< -to ram:MyOutputFile list task <enter>
```

or

```
< to ram:MyOutputFile -list task <enter>
```

You can also combine the 'to' and the

```
on
command :
```

First open the 'Extra' window (if it is not already open) :

```
< xwin <enter>
```

```
< to ram:MyOutputFile on extra list task <enter>
> ...
```

This command will list all tasks on the 'Extra' logical window. No output will be written to the file since the 'to' command only redirects the output from the current logical window. However :

```
< on extra to ram:MyOutputFile list task <enter>
> ...
```

will also list all task on the extra window. The difference is that this time there will be output in the file since the 'to' command redirects the output from the current logical window. At the time the 'to' command is executed, this logical window is equal to 'Extra'.

Related commands:

```
log
```

```
xwin
```

```
on
```

```
Related lists: lwin
```

Related tutor chapters: Screens and windows

1.137 Command Reference : trace


```

TRace [ 'n' <number> | 'b' | 'r' <register> | 'u'['t'] <address ←
>
| 'o'['t'] | 'c' <condition> | 's' | 'g'['t'] | 'h' | 'f'
| 't' | 'j' ]

```

Use this command to singlestep a program (Use debug first to make a debug task).

| | |
|---------------------|--|
| trace n <number> | Trace <number> instructions. Tracing is done in singlestep mode. |
| trace b | Trace until the next branch (singlestep mode). |
| trace t | Skip BSR or JSR. If not a BSR or JSR simple trace is used. This function works in ROM. Execute mode is used. |
| trace j | Trace until use of library ROM function: JSR or JMP (a6). Tracing is done in singlestep mode. |
| trace r <register> | Trace until a specified register is changed (singlestep mode). register can be d0-d7, a0-a6 or sp. |
| trace u <address> | Trace until the programcounter is equal to <address>. Tracing is done in execute mode. |
| trace ut <address> | Same as above but use singlestep mode instead. |
| trace o | Trace over the current instruction. Tracing is done in execute mode. |
| trace ot | Same as above but use singlestep mode instead. |
| trace c <condition> | Trace until a condition is satisfied. This condition is a string. Example: trace c '@d1==@d2' will trace until register d1 is equal to register d2. Tracing is done in singlestep mode. |
| trace s | Skip an instruction |
| trace i | Do not trace. Simply show the current registers and instructions. |
| trace g | Execute until a breakpoint is encountered |
| trace gt | Same as above but tracing is done in singlestep mode. |
| trace h | Interrupt the tracing or executing of the current debug task. |
| trace f | Interrupt the tracing or executing of the current debug task as soon as this task is in ready state. |

Related commands:

```

debug
break
duse
drefresh
dstart

```

```

dscroll

dwin

swin

with

symbol
Related functions:  getdebug()

```

Related lists: dbug

Related tutor chapters: Debugging

1.138 Command Reference : track

```
TRACK 't' <task> | 's' | 'c' | 'l'
```

With this command you can control the resource tracker. This resource tracker remembers all memory allocations (AllocMem, AllocVec) and all opened libraries (OpenLibrary, OldOpenLibrary). With this information you can see if the task (or process) cleans everything up.

Note that you can only track resources for one task or process at a time.

'track' uses autodefaut to the 'task' list for the <task> argument.

```

track t      Take a task or process in the task list and start resource
              tracking for that task
track s      Stop tracking and free all track information. Note that
              the memory that the task forgot to free is NOT freed with
              this function
track c      Stop tracking and free all track information (like
              'track s')
              In addition this function also clears all memory that is
              not freed by the program
track l      List all memory and libraries current allocated or open

```

Example :

The easiest way to start resource tracking for a program is to use 'debug n', start the program, use 'track t' to get the new task from the task list and use 'debug r' to remove the debug node and let the program continue.

```

< track l <enter>
> 07F3211A : 07E0E1F0,00000000 dos.library
> 07F3217C : 07EA5EE8,00000010
> 07F33CAC : 07E5B8A0,00000000 mathieeedoubbas.library
> 07F33CCC : 07EBA8A8,00000000 mathieeedoubtrans.library
> 07F32ACA : 07E0ABC4,00000024 intuition.library

```

```
> 07F32ADC : 07E036B0,00000024 graphics.library
> 07F32AEE : 07E49820,00000024 gadtools.library
> 07F32B00 : 07E00154,00000024 utility.library
> 07F32B12 : 07E389E0,00000026 locale.library
> 00F81CE8 : 07EBA8E8,000000AC
> 00F92B5C : 07EBA8EC,000000A8 (AllocVec)
> 00F81CE8 : 07EBA998,0000001C
> 00FA7358 : 07EBA99C,00000018 (AllocVec)
> 00FD8F90 : 07F2D0A8,000000A4
> ...
```

The first hexadecimal number is the program counter where the library function (AllocMem, AllocVec, OpenLibrary or OldOpenLibrary) was called. The second number is the result of this library function (either the allocated memory or the opened library). The last number is the version of the library or the size of the allocated memory block. If it is a library the name of the library is printed at the end. If the memory is allocated with 'AllocVec' (AmigaDOS 2.0 only) '(AllocVec)' is printed.

Related commands:

```
    debug
Related lists:  task
```

1.139 Command Reference : unalias

```
UNALias <alias command name>
```

Remove an alias string previously installed with
alias
.

Example :

```
< alias xxx 'disp 3' <enter>
< xxx <enter>
> 00000003 , 3

< unalias xxx <enter>
< xxx <enter>
> Syntax Error !
```

Related commands:

```
    alias
Related tutor chapters:  Installing PowerVisor
```

1.140 Command Reference : unasmb

```
Unasm [<start> [<instructions>]]
```

This command disassembles machinelanguage beginning at <start>. <instructions> instructions are disassembled. This command also shows symbols and breakpoints if there are any. The disassembler supports the following processors :

```
68000, 68010, 68020, 68030, 68040, 68881, 68882, 68851
```

With no arguments this command continues the disassembly.

<instructions> is 20 by default. PowerVisor remembers the last number of lines used with this command and uses this number as the new default number of <instructions> for the following 'unasm' commands.

Normally you will also see the hex data corresponding with the code. You can disable this (and thus provide for longer labels in symbolic disassembly) with the

```
mode
command (noshex).
```

If you press <enter> after an 'unasm' command, the disassembly will continue.

Related commands:

```
view
memory
mode
Related functions: lastmem() lastlines()
```

Related tutor chapters: Looking at things

1.141 Command Reference : unfreeze

```
UNFreeze <task>
```

Unfreeze a task you have frozen before.

'unfreeze' uses autodefult to the 'task' list for the first argument.

Related commands:

```
freeze
kill
Related lists: task
```

1.142 Command Reference : unhide

UNHide

Unhide all output from commands issued from an ARExx script.

Related commands:

hide

rx

Related tutor chapters: Scripts

1.143 Command Reference : unloadfd

UNLoadfd <fd-file node>

Remove all functiondefinitions in a fd-file. You can find the nodes for fd-files in the 'FDFi' list.

After this command you cannot use the library functions from this fd-file anymore.

'unloadfd' uses autodefaut to the 'FdFi' list for the first argument.

Related commands:

loadfd

libfunc

libinfo

Related lists: fdfi

1.144 Command Reference : unlock

UNLOCK <pointer to a lock>

This command unlocks a lock. The pointer to the lock must be an APTR, not a BPTR !

Related commands:

pathname

Related lists: lock files

1.145 Command Reference : unresident

UNResident <Pointer to code>

Unload a file loaded with
resident
. All resident files are automatically
unloaded when PowerVisor quits.

Related commands:

resident

go

script

Related tutor chapters: Scripts

1.146 Command Reference : usetag

USetag <number>

Set the current tag list to <number> (0 .. 15). The current tag list is used by all tag commands and by 'view'. The default current tag list is 0.

You can also use

tg

to temporarily set the current tag list.

Related commands:

tg

addtag

remtag

tags

savetags

loadtags

view

Related functions: taglist()

Related tutor chapters: Looking at things

1.147 Command Reference : vars

VARS ['all']

This command shows all variables. You will notice the variables 'rc' and 'error'.

When you use the 'all' option, PowerVisor will show all variables including constants and functions.

Notice the 'mode' special variable, the 'version' constant and the 'input' constant.

You can type really anything for the 'all' argument. The simple presence of an extra argument is enough.

Example :

```
< a=1000 <enter>
```

```
< vars <enter>
```

```
> error           : 0  00000026 , 38
> rc              : 0  07E43080 , 132395136
> a               : 0  000003E8 , 1000
```

```
< vars all <enter>
```

```
> mode           : 2  00002159 , 8537
> version        : 1  00000200 , 512
> error          : 0  00000026 , 38
> rc             : 0  07E43080 , 132395136
> input         : 1  00000000 , 0
> getx           : 3  07E7F1D6 , 132641238
> gety          : 3  07E7F1DE , 132641246
> getdebug      : 3  07E86992 , 132671890
> getchar       : 3  07E7F1E6 , 132641254
> base          : 3  07E80562 , 132646242
> rp            : 3  07E7F224 , 132641316
> lines         : 3  07E7F1FC , 132641276
> cols          : 3  07E7F210 , 132641296
> key           : 3  07E7F2E4 , 132641508
> alloc         : 3  07E7D586 , 132633990
> free          : 3  07E7D5C8 , 132634056
> getsize       : 3  07E7D5EA , 132634090
> realloc       : 3  07E7D604 , 132634116
> lastmem       : 3  07E7D55A , 132633946
> lastfound     : 3  07E7D562 , 132633954
> peek          : 3  07E804EC , 132646124
> apeek         : 3  07E80526 , 132646182
> rfrate        : 3  07E78310 , 132612880
> rfcmd         : 3  07E78318 , 132612888
> isalloc       : 3  07E7D5B0 , 132634032
> curlist       : 3  07E80164 , 132645220
> gethist       : 3  07E78170 , 132612464
> qual          : 3  07E7F2DC , 132641500
> getcol        : 3  07E7EF9C , 132640668
> getrow        : 3  07E7EFB0 , 132640688
> getlwin       : 3  07E7EF6E , 132640622
> stsize        : 3  07E804D8 , 132646104
```

```

> taglist           : 3  07E7CD22 , 132631842
> toppc            : 3  07E8584C , 132667468
> botpc            : 3  07E85868 , 132667496
> eval             : 3  07E8446C , 132662380
> if               : 3  07E84452 , 132662354
> isbreak          : 3  07E85818 , 132667416
> a                : 0  000003E8 , 1000

```

The first argument after the colon means the following :

```

0 = normal variable
1 = constant variable
2 = special variable with an action attached to it (internal)
3 = function (value is pointer to code for function)

```

Related commands:

```

mode
error
remvar
assign

```

1.148 Command Reference : view

```
VIew [<address> [<bytes>]]
```

View memory following certain requirements. The requirements follow from the current taglist (which is set with

```

usetag
or
tg
). The default

```

format is Long/Ascii combined view. You can change the format used to display the memory for a specific range of memory to something else using tags. The default number of bytes to view is 320 (16 bytes * 20 lines). If you do not give an address, PowerVisor will continue the listing of memory where you stopped in a previous listing (either

```

view
'
memory
or
unasm

```

). Pressing <Enter> after a 'view' command also causes the listing to continue.

PowerVisor remembers the last number of bytes used with the command (and the 'memory' command) and uses this number as the new default number of <bytes> for the following 'view' (or 'memory') commands.

Use the

```
addtag
```


command to define how a specific range of memory should be viewed.

Also see the `Looking at things` chapter for more examples and details about these tags.

Example :

First we define the memory starting on location 0 as a range of longwords :

```
< addtag 0 50 la <enter>
```

This 'addtag' command adds a definition for a range of memory. A memory range with 50 bytes starting from address 0 is defined as LA. This is Long/Ascii. This is the default, so you won't see anything special when you view that memory.

```
< addtag 50 50 wa <enter>
```

The next 50 bytes of memory (starting on address 50) are defined as WA or Word/Ascii. We can use the 'view' command to see what we have done :

```
< view 0 <enter>
```

(Note that the 'view' command has the same sort of arguments as the 'memory' command).

```
> 00000000: 00000000 07E007CC 00F80834 00F80B16          .....4....
> 00000010: 00F80ADA 00F80ADC 00F80ADE 00F80AE0          .....
> 00000020: 00F80C00 00F80AE4 00F80AE7 00F80AE8          .....
> 00000030: 00F8                                ..
> 00000032: 0AEA 00F8 0AEC 00F8 0AEE 00F8 0AF0 00F8          .....
> 00000042: 0AF2 00F8 0AF4 00F8 0AF6 00F8 0AF8 00F8          .....
> 00000052: 0AFA 00F8 0AFC 00F8 0AFE 00F8 0B00 00F8          .....
> 00000062: 0B02                                ..
> 00000064: 00F810F4 00F81152 00F81188 00F811E6          .....R.....
> 00000074: 00F8127C 00F812C6 00F81310 00F80B70          ...|.....p
> 00000084: 00F80B72 00F80B74 00F80B76 00F80B78          ...r...t...v...x
> 00000094: 00F80B7A 00F80B7C 00F80B7E 00F80B80          ...z...|...~....
> 000000A4: 00F80B82 00F80B84 00F80B86 00F80B88          .....
> 000000B4: 00F80B8A 00F80B8C 00F80B8E 00F80B90          .....
> 000000C4: 00F80B92 00F80B94 00F80B96 00F80B98          .....
> 000000D4: 00F80B9A 00F80B9C 00F80B9E 00F80BA0          .....
> 000000E4: 00F80BA2 00F80BA4 00F80BA6 00F80BA8          .....
> 000000F4: 00F80BAA 00F80BAC 00F80BAE 00000000          .....
> 00000104: 00000000 00000000 00000000 00000000          .....
> 00000114: 00000000 00000000 00000000 00000000          .....
> 00000124: 00000000 00000000 00000000 00000000          .....
> 00000134: 00000000 00000000 00000000          .....
```

You can see that the memory starting at location 50 is listed in Word/Ascii format.

Related commands:

```
addtag
```

```
remtag
cleartags
loadtags
savetags
tg
usetag
checktag
tags
memory
unasm
interpret
Related functions: taglist()  stsize()  lastmem()  lastbytes()
```

Related tutor chapters: Looking at things

1.149 Command Reference : void

```
<result> <- Void {<argument> ...}
```

This command does absolutely nothing except evaluating it's arguments.

<result> is the result of the last evaluated expression.

Note that this command is useful in the following situations :

- calling library functions or PowerVisor functions when you are not interested in the result of this function
- returning a value (<result>) from a group operator :

```
< disp {a=4;b=5;void a+b} <enter>
> 00000009 , 9
```
- you can also use the 'void' command to copy a PowerVisor expression to an ARexx variable :

```
ARexx< options results
ARexx< 'void a+4'
ARexx< b=result
```

Related commands:

```
disp
Related functions: if()  eval()
```

Related tutor chapters: Getting Started Expressions

1.150 Command Reference : wblock

WBlock <Unit number> <block number> <address>

Write a block to disk. <address> must be in chip ram.
A block is 1024 bytes big.

Related commands:

rblock

1.151 Command Reference : with

WITh <debug node> <command>

This command temporarily sets another current debug task and executes <command>. This is useful if you want to view memory with another set of symbols for example. Or if you want to change the registers of another debug task.

'with' uses autodefaut to the 'dbug' list for the first argument.

Example:

```
< with MyBuggyProgram memory 070540 <enter>  
> ...
```

Related commands:

duse

debug

break

trace

drefresh

symbol

Related functions: getdebug()

Related lists: dbug

Related tutor chapters: Debugging

1.152 Command Reference : xwin

Xwin [<number of lines>]

Open/close the extra window. You can use the 'Extra' logical window for everything you like. You can use it as a scratchbook for example. Using the

on
command you can dump some information there.

Normally the height of the new logical window is 30 % of the total physical window height ('Main' is the physical window for all standard logical windows). However, if you specify <number of lines>, the logical window will be opened with <number of lines> visible lines (This is the number of lines when the default PowerVisor font is used).

By default the 'Extra' logical window has the following characteristics :

- Number of columns is fixed and equal to the maximum number of columns visible at the time the logical window is created
- Number of rows is fixed and equal to the maximum number of rows visible at the time the logical window is created
- -MORE- checking is disabled
- Interrupt/Pause checking is enabled
- Home position is top-visible
- Auto Output Snap is on

You can change these characteristics with the
prefs
command.

Note that if the 'intui' mode flag is one (this is off by default, see the

mode
command) the logical window will be opened on a new physical ↔
window.

<number of lines> is ignored in that case.

Related commands:

rwin

dwin

swin

awin

owin

fit

colrow

prefs

mode

Related lists: [lwin](#)

Related tutor chapters: [Screens and windows](#)