

**Aliases.hyper**

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# Chapter 1

## Aliases.hyper

### 1.1 Alias Reference (Mon Nov 2 19:53:37 1992)

Contents:

Introduction

Aliases:

ahelp	(show AmigaGuide main help menu)
asm	(primitive interactive assembler)
at	(attach a macro to a key)
bin	(show integer in binary)
cm	(list memory)
cmd	(execute cli command from within PowerVisor)
cmdhelp	(show AmigaGuide command help)
cu	(disassemble memory)
cv	(view memory)
fact	(compute facultaty)
fd6	(load fd-file for library in @a6)
fdebug	(open/close fullscreen debugger)
funhelp	(show AmigaGuide function help)
index	(search keyword in PowerVisor manual)
lfd	(load fd-file)
m0	(list current memory page again)
m1	(list previous memory page again)
mhhelp	(show MultiView main help menu)
mstack	(control stack checking)
opwin	(open a physical and a logical window)
salias	(show how a commandline expands)
v0	(view current memory page again)
v1	(view previous memory page again)
why	(give reason for error)

Various:

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### 1.2 Alias Reference : Introduction

This reference file contains all aliases defined in s/PowerVisor-startup

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and s/pv/ExtraAliases.

### 1.3 Alias Reference : ahelp

AHELP

Definition : rx 'options results;pubscreen;address command "amigaguide  
pv:docs/PowerVisor.guide screen="result'

Defined in : s/PowerVisor-startup

Call AmigaGuide with the main PowerVisor menu. This alias only works if you have AmigaGuide.

### 1.4 Alias Reference : asm

ASM <address>

Definition : rx s:pv/assem []

Defined in : s/PowerVisor-startup

This alias calls a simple assembler written in ARexx. See 's:pv/assem.pv' for more info about the assembler. Stop the assembler with an empty input line.

### 1.5 Alias Reference : at

AT <command string> <code string> <qualifier string>

Definition : attach [1] co([2]) qu([3]) e

Defined in : s/PowerVisor-startup

This alias attaches a command to a key (makes a macro). The advantage of this alias is that you can use names for the code and qualifier of the key instead of numbers.

Note that you have to define the 'co' and 'qu' functions in order to use this alias (this is already done in s/PowerVisor-startup).

Note that the 'co' function does not work perfectly in AmigaDOS 1.3. Only use the 'co' function (and thus the 'at' alias) for special keys ('enter', 'esc', 'up', ...) and not for normal keys ('a', '3', ...).

The following code strings are supported :

f1, f2, f3, f4, f5, f6, f7, f8, f9, f10, esc, enter, ret, up, down,  
right, left, del, help, tab, numl, scrl, prtsc, home, end, nup, nleft,  
nright, ndown, pgup, pgdn, ins, ndel

All other strings are interpreted as one char only (you may only use one

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of the above strings if you have AmigaDOS 1.3)

The following qualifier strings are supported :

lshift, rshift, ctrl, lalt, ralt, lcmd, rcmd

Example :

```
< at 'help commands' help ralt <enter>
```

This command attaches the 'help commands' command to the <right-alt>+<help> key.

Related commands: attach remattach

## 1.6 Alias Reference : bin

BIN <number>

```
Definition : bin = {bin8 ([])>>8;bin8 ([]);print \0a}
              bin8 = print \((([])>>7&1)\((([])>>6&1)\((([])>>5&1)\((([])>>4&1)
                  \((([])>>3&1)\((([])>>2&1)\((([])>>1&1)\((([])&1)
```

Defined in : s/PowerVisor-startup

This alias shows the binary representation of the 16 least significant bits of <number>.

Example :

```
< bin 1234 <enter>
> 0000010011010010
```

## 1.7 Alias Reference : cm

CM [<number of bytes>]

```
Definition : m lastmem() []
Defined in : s/PowerVisor-startup
```

This alias is equivalent to the memory command. The only difference is that you can specify the number of bytes to view without having to specify the starting address.

Related commands: memory cv cu

## 1.8 Alias Reference : cmd

CMD <cli command line>

Definition : rx s:pv/cmd []

Defined in : s/PowerVisor-startup

You can use this alias to execute Cli commands from within PowerVisor. The output will appear on the default logical window. This alias uses a unique temporary file in 'T:'.

Warning! You can't use Cli commands that ask for input.

You can interrupt the output of the Cli command by pressing <ctrl>+<c> in PowerVisor (the 'cmd.pv' script uses a macro to do this, you can change this key by changing the script).

This alias uses the 's:pv/cmd.pv' script.

Example :

```
< cmd dir dh0: all <enter>
> ...
```

## 1.9 Alias Reference : cmdhelp

CMDHELP <command>

Definition : rx 'options results;pubscreen;address command "amigaguide  
pv:docs/CommandRef.guide screen="result" doc=[]''

Defined in : s/PowerVisor-startup

Call AmigaGuide with the Command Reference chapter. This alias only works if you have AmigaGuide. <command> is the name of the command that you want help about (use 'Main' for the main Command Reference menu).

## 1.10 Alias Reference : cu

CU [<number of lines>]

Definition : u lastmem() []

Defined in : s/PowerVisor-startup

This alias is equivalent to the unasm command. The only difference is that you can specify the number of lines to disassemble without having to specify the starting address.

Related commands: unasm cv cm

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## 1.11 Alias Reference : cv

CV [<number of bytes>]

Definition : view lastmem() []  
Defined in : s/PowerVisor-startup

This alias is equivalent to the view command. The only difference is that you can specify the number of bytes to view without having to specify the starting address.

Related commands: view cu cm

## 1.12 Alias Reference : fact

FACT <number>

Definition : fact = disp {\_fact []}  
              \_fact = void if(([])==1,1,{\_fact ([]) -1}\*([]))  
Defined in : s/pv/ExtraAliases

This alias computes the facultaty of its argument. It is an example of how to use recursive aliases.

Example :

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

Related commands: disp void

Related functions: if()

## 1.13 Alias Reference : fd6

FD6

Definition : {\_a=alloc(s,'fd:\(peek(@a6,\_node,name),%s)');-search \_a 256  
              '.';\*rc.b=0;\_b=alloc(s,'\(\_a,%s)\_lib.fd');v free(\_a);loadfd  
              @a6 \(\_b,%s);v free(\_b);remvar \_a \_b}  
Defined in : s/pv/ExtraAliases

This alias loads the fd-file for the library pointed to by register a6 while you are debugging. Use drefresh after 'fd6' to refresh the debug display.



Related commands: loadfd lfd

## 1.14 Alias Reference : fdebug

FDEBUG

Definition : script db

Defined in : s/PowerVisor-startup

This alias installs the fullscreen debugger for you. If the debug logical window is not open it is opened ( dwin command). The number of instructions in the disassembly is set to 5 ('prefs debug' command). Some keys are assigned to commands (<lcmd> is left amiga key) :

<ctrl>+z	singlestep one instruction
<ctrl>+y	singlestep one instruction
<ctrl>+a	set breakpoint after this instruction and execute
<ctrl>+s	skip current instruction
<ctrl>+r	run program until a breakpoint hit occurs
<ctrl>+x	halt running program
<ctrl>+b	set/reset a temporary breakpoint at the top of the debug logical window
<ctrl>+t	singlestep but skip BSR and JSR instructions
<lcmd>+u	trace until ...
<lcmd>+b	trace until a change of programflow occurs (branch, ...)
<rcmd>+a	set debug window start address ...
<rcmd>+b	set permanent breakpoint ...

Note that these keys can differ when you use another default keymap (like 'azerty' or 'qwertz'). Change the 'db' script if you want to use other keys.

'fdebug' redefines itself. After the fullscreen debugger is installed you can use 'fdebug' to remove the fullscreen debugger. 'fdebug' is a toggle.

Note that the 'db' script (located in s/pv) works best when called from within the alias. Never execute this script directly.

Related commands: debug trace break

## 1.15 Alias Reference : funhelp

FUNHELP <function>

Definition : rx 'options results;pubscreen;address command "amigaguide  
pv:docs/Functions.guide screen="result" doc=[]"

Defined in : s/PowerVisor-startup

Call AmigaGuide with the Function Reference chapter. This alias only works

if you have AmigaGuide. <function> is the name of the command that you want help about (use 'Main' for the main Function Reference menu).

## 1.16 Alias Reference : index

### INDEX

Definition : rx s:pv/searchkeyword  
Defined in : s/PowerVisor-startup

This alias uses the 'searchkeyword.pv' ARexx script to search for a certain keyword in the complete PowerVisor hypertext manual. After executing this alias PowerVisor will ask for the string to search. After waiting a bit you will get a numbered list with all topics where the string was found. Choose the right number to go to that topic. Simply press enter to quit. This script will start AmigaGuide to go to that topic. So you need AmigaGuide to use this alias (unless you change the ARexx script).  
Instead of a number you can also type 'l' followed by two numbers separated by a comma to list that part of the list again or you can use 'l' followed by a string to list only those topics starting with that string.

This script uses the 'searchit' utility in the 'pv:docs' subdirectory. This utility searches a topic. There are two versions: 'searchit.gcc' (compiled with the Gnu C compiler) and 'searchit.lc' (compiled with the SAS/C 5.10 compiler). The gcc version is a lot faster, but it needs the 'ixemul.library' (available from FTP). Copy the version you want over 'searchit' (default is 'lc' version because this will always run).

## 1.17 Alias Reference : lfd

LFD <library name>

Definition : loadfd [] fd:[]\_lib.fd  
Defined in : s/PowerVisor-startup

This alias loads a fd-file for a library. It is simply a shorthand notation.

Example :

< lfd exec <enter>

instead of

< loadfd exec fd:exec\_lib.fd <enter>

Related commands: loadfd fd6

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## 1.18 Alias Reference : m0

M0

Definition : `m lastmem()-lastbytes()`

Defined in : `s/pv/ExtraAliases`

Relist the last page of memory that was shown with the `memory` command.

Related commands: `memory` `m1`

## 1.19 Alias Reference : m1

M1

Definition : `m lastmem()-lastbytes()*2`

Defined in : `s/pv/ExtraAliases`

Relist the previous page of memory that was shown with the `memory` command.

Related commands: `memory` `m0`

## 1.20 Alias Reference : mhelp

MHELP

Definition : `rx 'options results;pubscreen;address command "multiview  
pv:docs/PowerVisor.guide pubscreen="result'`

Defined in : `s/PowerVisor-startup`

Call MultiView with the main PowerVisor menu. This alias only works if you have MultiView.

## 1.21 Alias Reference : mstack

MSTACK <task> <microseconds>

Definition : `{rwin 1;r 5 {home;d getstack()};stack []}`

Defined in : `s/PowerVisor-startup`

This alias is equivalent to the `stack` command. The difference is that this alias first opens the refresh logical window with one visible line and

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installs a refresh command to display the maximum stack usage two times per second (5 IntuiTicks).

Example :

```
< mstack workbench 10000 <enter>
```

Related commands: stack refresh

Related functions: getstack()

## 1.22 Alias Reference : opwin

OPWIN <window name>

Definition : {-openpw [] 0 0 300 200;-openlw [] [] 80 40}  
Defined in : s/PowerVisor-startup

This alias opens a physical window <window name> with size 300x200 and opens a logical window with the same name in this physical window.

Related commands: openpw openlw

## 1.23 Alias Reference : salias

SALIAS <commandline>

Definition : {print \({\_fl={pv 48 ·Å[]Å}},%s)\0a;v free(\_fl);remvar \_fl}  
Defined in : s/PowerVisor-startup

With this alias you can show the commandline how it would look like after alias substitution. This is very useful for debugging aliases. If an alias does not work well you can use this alias to see what actually gets executed.

Example :

```
< alias x '[3][2][1] testing []' <enter>
< salias x i r p last <enter>
> pri testing i r p last
```

Related commands: print pvcall

## 1.24 Alias Reference : v0

v0

Definition : `view lastmem()-lastbytes()`

Defined in : `s/pv/ExtraAliases`

Relist the last page of memory that was shown with the `view` command.

Related commands: `view` `v1`

## 1.25 Alias Reference : v1

v1

Definition : `view lastmem()-lastbytes()*2`

Defined in : `s/pv/ExtraAliases`

Relist the previous page of memory that was shown with the `view` command.

Related commands: `view` `v0`

## 1.26 Alias Reference : why

WHY

Definition : `help e\ (error)`

Defined in : `s/PowerVisor-startup`

This alias gives some additional help for the last error.

Related commands: `help`

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