

ARx_Func2.ag

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Chapter 1

ARx_Func2.ag

1.1 main

AN AMIGAGUIDE® TO ARexx
by Robin Evans

Edition: 1.0c

Note: This is a subsidiary file to ARexxGuide.guide. We recommend using that file as the entry point to this and other parts of the full guide.

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1.2 ARexxGuide | Functions reference (3 of 12) | WORD MANIPULATION

```
DELWORD (<string>,<wordnum>, [<length>])
SPACE (<string>,<number>,<padchar>])
SUBWORD (<string>,<wordnum>, [<length>])
WORD (<string>,<wordnum>)
WORDINDEX (<string>,<wordnum>)
WORDLENGTH (<string>,<wordnum>)
WORDS (<string>)
```

Related function:

FIND

Also see String manipulation functions
PARSE instruction

A 'word' is any collection of characters separated by blanks from other characters in a string. These functions allow the programmer to manipulate such words in a quick and elegant manner.

Next: Translation func. | Prev: String functions | Contents: Function reference

1.3 ARexxGuide | Functions reference | Words (1 of 7) | DELWORD

```
DELWORD(<string>,<wordnum>, [<length>])
    returns a string
```

Deletes a portion of <string> beginning at the word represented by <wordnum> for <length> number of words. If <wordnum> is greater than the number of words in <string> then <string> is returned unchanged.

If <length> is omitted, everything to the right of (and including) the word at <wordnum> position is deleted.

Examples:

```
say delword('the indestructible chaos of timeless things',3,3);
    >>> the indestructible things
```

```
Also see @{ " DELSTR          " link ARx_Func.ag/DELSTR() }
          @{ " SUBWORD       " link SUBWORD() }
```

Next: [SPACE\(\)](#) | Prev: [Word functions](#) | Contents: [Word functions](#)

1.4 ARexxGuide | Functions reference | Words (2 of 7) | SPACE

```
SPACE(<string>,<wordnum>,<padchar>])
    returns a string
```

Formats the original string by placing <number> of <padchar> characters between each set of blank-delimited words. Leading and trailing blanks are always removed. If <number> is 0, then all spaces in the string are removed.

The default for <number> is 1. The default pad character is a blank.

Example:

```
say space('I don''t know what it is',3);
    >>> I   don't   know   what   it   is
say space('In the end it was magic',1,'_');
    >>> In_the_end_it_was_magic
```

```
Also see @{ " CENTER          " link ARx_Func.ag/CENTER() }
          @{ " COMPRESS      " link ARx_Func.ag/COMPRESS() }
```

Next: [SUBWORD\(\)](#) | Prev: [DELWORD\(\)](#) | Contents: [Word functions](#)

1.5 ARexxGuide | Functions reference | Words (3 of 7) | SUBWORD

```
SUBWORD(<string>,<wordnum>, [<length>])
    returns a string
```

The result is a string of <length> blank-delimited words made up the words in <string> beginning at word <wordnum>.

Example:

```
say subword('yet nothing is changed',2,2);    >>> nothing is
```

```
Also see @{" WORD          " link WORD()}
          @{" SUBSTR       " link ARx_Func.ag/SUBSTR()}
          @{" FIND        " link ARx_Func.ag/FIND()}
          @{" DELWORD     " link DELWORD() }
```

Next: WORD() | Prev: SPACE() | Contents: Word functions

1.6 ARexxGuide | Functions reference | Words (4 of 7) | WORD

WORD(<string>,<wordnum>)
returns a string

The result is the blank-delimited word in <string> at position <wordnum>, or a null string if there are fewer than <wordnum> words in <string>.

Example:

```
say word('the most you can hope',5);    >>> hope
```

```
Also see @{" SUBWORD          " link SUBWORD()}
          @{" PARSE TOKENIZATION " link ARx_Instr2.ag/PARSETMP2} instruction
```

Next: WORDINDEX() | Prev: SUBWORD() | Contents: Word functions

1.7 ARexxGuide | Functions reference | Words (5 of 7) | WORDINDEX

WORDINDEX(<string>,<wordnum>)
returns a number

The result is the character position of the first character in the word at position <wordnum> in <string> or 0 if there are fewer than <wordnum> words.

Example:

```
say wordindex('to be a little less the creature',4);    >>> 9
```

```
Also see @{" FIND          " link ARx_Func.ag/FIND()}
          @{" WORDS        " link WORDS()}
          @{" WORDLENGTH   " link WORDLENGTH() }
```

Next: WORDLENGTH() | Prev: WORD() | Contents: Word functions

1.8 ARexxGuide | Functions reference | Words (6 of 7) | WORDLENGTH

WORDLENGTH(<string>,<wordnum>)
returns a number

The result is the length of the blank-delimited word at position <wordnum> in <string>.

Example:

```
say wordlength('you were in the beginning',3);      >>> 2
```

```
Also see @{" FIND          " link ARx_Func.ag/FIND() }
         @{" WORDINDEX     " link WORDINDEX() }
         @{" WORDS        " link WORDS() }
```

Next: WORDS() | Prev: WORDINDEX() | Contents: Word functions

1.9 ARexxGuide | Functions reference | Words (7 of 7) | WORDS

WORDS(<string>)
returns a number

The result is the number of blank-delimited words in <string>.

Example:

```
say words('and the middle');      >>> 3
```

```
Also see @{" FIND          " link ARx_Func.ag/FIND() }
         @{" WORDINDEX     " link WORDINDEX() }
         @{" WORDLENGTH    " link WORDLENGTH() }
```

Next: Word functions | Prev: WORDLENGTH() | Contents: Word functions

1.10 ARexxGuide | Functions reference (4 of 12) | TRANSLATION

```
B2C      (<binary-string>)
C2B      (<string>)
C2D      (<string>, [<numbytes>])
C2X      (<string>)
D2C      (<whole number>, [<length>])
D2X      (<whole number>, [<length>])
X2C      (<hex-string>)
X2D      (<hex-string>)
```

The function in this list translate values from one form of representation to another.

Since ARexx stores all values as strings, it is difficult to decipher some of the values it returns -- such as the addresses returned by GETSPACE() or WAITPKT(). The C2D() function can translate those values into a more readily understood format.

Next: Number functions | Prev: Word functions | Contents: Function reference

1.11 ARexxGuide | Functions reference | Translation (1 of 8) | B2C

B2C(<binary number>)
 returns a character

Translates a binary number into its ASCII character representation.

Spaces are allowed at the byte boundaries in the input <binary number>.

Example:

```
say b2c(01100001);           >>> a
say b2c(01000110 01000110 01010011); >>> FFS
```

Also see @{ " C2B " link C2B() }

Next: C2B() | Prev: Translation func. | Contents: Translation func.

1.12 ARexxGuide | Functions reference | Translation (2 of 8) | C2B

C2B(<string>)
 returns a binary number

Converts <string> into binary digits.

Examples:

```
say c2b('FFS');           >>> 010001100100011001010011
say c2b('F') c2b('F') c2b('S'); >>> 01000110 01000110 01010011
say c2b('a');           >>> 01100001
```

Each character in the argument string is converted to its binary representation. The value returned is a concatenation of each of those binary numbers. This is the way <string> would be represented in the machine's memory.

Also see @{ " B2C " link B2C() }

Next: C2D() | Prev: B2C() | Contents: Translation func.

1.13 ARexxGuide | Functions reference | Translation (3 of 8) | C2D

C2D(<string>, [<chars>])
 returns a number

In its simplest form, when <string> is one character, the function converts <string> to its ASCII value expressed as a decimal number.

Examples:

```
say c2d('b');           >>> 98
say c2d(0);             >>> 49
```

The function will accept a <string> of up to four characters (four bytes) in length. When multiple characters are supplied, the function treats each character as a binary number, concatenates the result (see c2b() for an

example) and then returns the decimal equivalent of concatenated number.

Example:

```
say c2d('FFS')          >>> 4605523
```

The second argument, which must be a number from 1 to 4, allows a string shorter than that supplied by the first argument to be evaluated. The string is truncated from the right to the number of characters specified.

Examples:

```
/**/
say c2d('miga')          >>> 1835624289
say c2d('Amiga', 4)     >>> 1835624289
say c2d('a')            >>> 97
say c2d('Amiga', 1)     >>> 97
```

```
Also see @{" C2B          " link C2B()}
         @{" D2C          " link D2C() }
```

Next: C2X() | Prev: C2B() | Contents: Translation func.

1.14 ARexxGuide | Functions reference | Translation (4 of 8) | C2X

C2X(<string>)
returns a string (formatted as a hex number)

In its simplest form, when <string> is one character, the function converts <string> to its ASCII value expressed as a hexadecimal number.

Example:

```
say c2x('b');          >>> 62
say c2x('F') c2x('S'); >>> 46 53
say c2x('FFS');       >>> 464653
```

When multiple characters are included in <string>, each character is converted to its hexadecimal representation. The value returned is a concatenation of each of those hex numbers. This is way the programmers usually prefer to view values of a binary file.

```
Also see @{" X2C          " link X2C() }
```

Next: D2C() | Prev: C2D() | Contents: Translation func.

1.15 ARexxGuide | Functions reference | Translation (5 of 8) | D2C

D2C(<whole number>, [<length>])
returns a string

Converts a decimal <whole number> into a character string.

If <length> is supplied, the result will be truncated from the right to that size.

Example:

```
say d2c(98);           >>> b
```

Also see @{ " C2D " link C2D() }

Next: D2X() | Prev: C2X() | Contents: Translation func.

1.16 ARexxGuide | Functions reference | Translation (6 of 8) | D2X

D2X(<whole number>, [<length>])

returns a string

Converts a decimal <whole number> into an equivalent hexadecimal string.

If <length> is supplied, the result will be truncated from the right or padded with '0' characters to to that size. d2x(<number>, <trunc>) produces the same result as right(d2x(<number>), <trunc>, '0') .

Example:

```
say d2x(98);           >>> 62
say d2x(464653);      >>> 7170D
say d2x(464653,6);    >>> 07170D
say d2x(464653,4);    >>> 170D
```

Next: X2C() | Prev: D2C() | Contents: Translation func.

1.17 ARexxGuide | Functions reference | Translation (7 of 8) | X2C

X2C(<string>)

returns a string

Converts a string of hexadecimal digits to their ASCII character representation.

<string> must be an expression that evaluates to a valid hex number -- a string of digits and/or the characters {a} through {f} or {A} through {F}. It will be padded, if necessary, with a leading 0 to produce an even number of characters.

Examples:

```
say x2c(416D696761);  >>> Amiga
say x2c(464653);      >>> FFS
```

Next: X2D() | Prev: D2X() | Contents: Translation func.

1.18 ARexxGuide | Functions reference | Translation (8 of 8) | X2D

X2D(<string>, [<length>])
 returns a string

Converts a string of hexadecimal digits to a whole decimal number. The setting of NUMERIC DIGITS determines the size of number that can be returned without generating an error.

<string> must be an expression that evaluates to a valid hex number -- a string of digits and/or the characters {a} through {f} or {A} through {F}. It will be padded, if necessary, with a leading 0 to produce an even number of characters.

If <length> is specified, then <string> is either padded on the left with 0's or truncated to that length before the translation.

Examples:

```
say x2d(416D6967);           >>> 1097689447
say x2d(464653);            >>> 4605523
```

Next: Translation func. | Prev: X2C() | Contents: Translation func.

1.19 ARexxGuide | Functions reference (5 of 12) | NUMBER MANIPULATION

ABS	(<number>)
HASH	(<string>)
MAX	(<number>, <number> [, <number>, ...])
MIN	(<number>, <number>, [, <number>, ...])
RANDOM	([<min>], [<max>], [<seed>])
RANDU	([<seed>])
SIGN	(<number>)
TRUNC	(<number>, [<places>])

Also see String manipulation functions

The functions take decimal digits as arguments. They perform some common alterations of the arguments, or return information about the number. The arguments sent to the function and the values returned are subject to alteration based on the setting of NUMERIC DIGITS. If a number is larger than the current DIGITS() setting, it will be converted to the current precision.

Next: Information func. | Prev: Translation func. | Contents: Function reference

1.20 ARexxGuide | Functions reference | Number (1 of 9) | ABS

ABS(<number>)
 returns a number

Returns the absolute value of <number>. The result will not have a sign and will be formatted according to the current settings of NUMERIC.

Examples:

```
say abs(-100);           >>> 100
say abs(10.5);          >>> 10.5
say abs(-30);           >>> 30
```

Also see @{" SIGN " link SIGN()}
 @{" DATATYPE " link ARx_Func3.ag/DATATYPE() }

Next: HASH() | Prev: Number functions | Contents: Number functions

1.21 ARexxGuide | Functions reference | Number (2 of 9) | HASH

HASH(<string>)
 returns a number

Returns the hash attribute of a string as a decimal number.

A hash attribute is a number assigned to a string and is often used in indexing schemes to provide a quick initial value for locating the string within a range of data.

Examples:

```
say hash('AMIGA')       >>> 95
say hash('Amiga')      >>> 223
say hash('MAGIA')      >>> 95
```

The hash value is determined by adding the decimal ASCII values of each character in the string and then performing a remainder-division (//) on the result. Given a variable [Word], the following program would return the same value as HASH(word):

```
/**/
Wtot = 0
do i = 1 to length(Word)
  Wtot = Wtot + c2d(substr(Word,i,1))
end
return Wtot // 256
```

Next: MAX() | Prev: ABS() | Contents: Number functions

1.22 ARexxGuide | Functions reference | Number (3 of 9) | MAX

MAX(<number>, <number> [, <number>, ...])
 returns a number

The result is the largest of the <number>s in the supplied list. It is returned in the format specified by the current NUMERIC settings.

Examples:

```
say max(3, 24/5, 2)           >>> 4.8
say max(length('pale'), length('gloom')) >>> 5
```

Also see @{" MIN " link MIN() }

Next: MIN() | Prev: HASH() | Contents: Number functions

1.23 ARexxGuide | Functions reference | Number (4 of 9) | MIN

MIN(<number>, <number>, [, <number>, ...])
returns a number

The result is the smallest of the <number>s in the supplied list. It is returned in the format specified by the current NUMERIC settings.

Examples:

```
/**/
say min(3, 24/5, 2) >>> 2
say min(length('pale'), length('gloom')) >>> 4
```

Also see @{" MAX " link MAX() }

Next: RANDOM() | Prev: MAX() | Contents: Number functions

1.24 ARexxGuide | Functions reference | Number (5 of 9) | RANDOM

RANDOM([<min>], [<max>], [<seed>])
returns a number

The result is a quasi-random non-negative whole number in the range <min> to <max> inclusive. The default for <min> is 0. The default for <max> is 999. If only one number is specified, it will be treated as the maximum value.

If a <seed> value (which must be an integer) is specified, it will begin a repeatable sequence of results.

Examples:

```
say random(10, 48) >>> 29 /* always */
say random() >>> 493 /* always */
say random(10, 48, 506) >>> 31 /* always */
say random(, , time(s)) >>> 25 /* maybe */
call random(, , time(s)); say random(10, 48) >>> 34 /* maybe */
```

Also see @{" RANDU " link RANDU() }

Unless the function is seeded once within each script in which it is used, it will always return the same values for a specified range of numbers. When a seed is specified, each call to random() will return a range of numbers that can be repeated exactly when the same seed value is used again. The TIME() function can provide a seed value that is itself random enough to produce a more truly random set of numbers during subsequent calls to random() without a seed.

Next: RANDU() | Prev: MIN() | Contents: Number functions

1.25 ARexxGuide | Functions reference | Number (6 of 9) | RANDU

RANDU([<seed>])
returns a number

The result is a quasi-random number between 0 and 1. The number of digits of precision is determined by the current setting of NUMERIC DIGITS.

If a <seed> value is specified, it will begin a repeatable sequence of results.

Examples:

```
say randu(48)           >>> 0.423783344 /* always */
say randu()            >>> 0.646834773 /* always */
say randu(506)        >>> 0.867625551 /* always */
say randu(time(s))    >>> 0.234561918 /* maybe  */
call randu(time(s));say randu(48) >>> 0.739330433 /* maybe  */
```

Also see @{" RANDOM " link RANDOM() }

Next: SIGN() | Prev: RANDOM() | Contents: Number functions

1.26 ARexxGuide | Functions reference | Number (7 of 9) | SIGN

SIGN(<number>)
returns '-1', '0', or '1'

A result of '-1' indicates that the supplied number is less than 0. '1' indicates that it is greater than 0. A result of '0' is returned when <number> is 0.

Examples:

```
say sign(45)           >>> 1
say sign(-86);        >>> -1
```

Also see @{" ABS " link ABS() }
@{" DATATYPE " link ARx_Func3.ag/DATATYPE() }

Next: TRUNC() | Prev: RANDU() | Contents: Number functions

1.27 ARexxGuide | Functions reference | Number (8 of 9) | TRUNC

TRUNC(<number>, [<places>])
returns a number

The result is the integer part of the supplied <number> formatted to <places> decimal places. 0's are added if <number> did not have that many decimal places.

If <places> is less than the number of decimals supplied, the fraction is truncated without rounding.

The function truncates the number without rounding so `trunc(6.19,2)` returns 6.1 rather than 6.2. The setting of `NUMERIC DIGITS` may be manipulated to create a rounded number.

Example:

```
say trunc(10.5, 2)           >>> 10.50
say trunc(6.7899, 3)        >>> 6.789
say trunc(3, 4)             >>> 3.0000
say '$'right(trunc(25.7, 2),8) >>> $ 25.70
say '$'right(trunc(125.4, 2),8) >>> $ 125.40
```

```
Also see @{" SUBSTR          " link ARx_Func.ag/SUBSTR()}
         @{" RIGHT           " link ARx_Func.ag/RIGHT() }
```

NOTE: Formatting tables

Next: Number functions | Prev: SIGN() | Contents: Number functions

1.28 ARexxGuide | Functions reference (6 of 12) | INFORMATIONAL

```
DATE      ([<option>], [<date>, <format>])
SHOW      (<option>, [<name>], [<separator>])
SHOWDIR   (<directory>, ['ALL'|'FILE'|'DIR'], <separator>)
SHOWLIST  (<option>, [<name>], [<separator>], ['A'])
TIME      (<option>)
```

Related function:

```
PRAGMA
ADDRESS
```

Also see File management functions

Like the `SOURCE` and `VERSION` options to the `PARSE` instruction, these functions give an ARexx script information about the system on which a script is running and (since dates and times are important to most of us) a bit of information about the world at large.

The `DATE()` function may also be used to translate dates from one format into another.

Next: File I/O func. | Prev: Number functions | Contents: Function ref.

1.29 ARexxGuide | Functions reference | Informative (1 of 5) | DATE

```
DATE([<option>], [<date>, <format>])
    returns a formatted string
```

Without arguments, the result is the current system date.

The <option> argument (B|C|E|I|J|M|N|O|S|U|W) determines the format of the result. It defaults to Normal format -- for example, '20 Apr 1993'.

The second and third arguments provide information about other dates. <date> must be entered in either Sorted or Internal format and specified as the third argument (S|I).

>>

Examples:

```
say date();           >>> 20 Apr 1993
say date(w);         >>> Tuesday
say date(i,'19930419',s); >>> 5587
say date(n,'5587',i); >>> 19 Apr 1993
say date(w,'19991231',s); >>> Friday
```

Also see @{" TIME " link TIME() }

NOTE: Persistence of DATE() value

Next: SHOW() | Prev: Information func. | Contents: Information func.

1.30 ARexxGuide | Functions reference | Informative | DATE (1 of 1) | OPTIONS

These are the <option>s recognized by the date function, they are:
All of these options can be shortened to the first character.

Option	Information returned
Normal	the date in the form dd MMM yy e.g. 09 Mar 1993
Ordered	the date in the form YY/MM/DD e.g. 93/09/03
Sorted	the date in the form YYYYMMDD e.g. 19930903
European	the date in the form DD/MM/YY e.g. 03/09/93
USA	the date in the form MM/DD/YY e.g. 09/03/93
Basedate	number of days since January 1, 0001
Julian	the date in the form YYDDD e.g. 91246
Century	number of days since January 1 of the current century
Days	number of days since January 1 of the current year
Internal	the date in internal system days e.g. 4993
Month	the current month in mixed case e.g. September
Weekday	the day of the week, mixed case e.g. Tuesday

Next, Prev. & Contents: DATE()

1.31 ARexxGuide | Functions reference | Informative (2 of 5) | SHOW

SHOW(<option>, [<name>], [<separator>])
returns a string

Returns a list of ARexx resources matching the specified <option>:

Option	Displays
Clips	The names of clips created by SETCLIP() or RXSET .
File	The logical names of files created with OPEN() , and the names of standard I/O files .
Libraries	The names on the ARexx Library List , added by ADDLIB()
Ports	The names of all system message ports .

Only the first character of the <option> keyword need be used.

An optional <separator> can be used to divide the resource names, some of which may have embedded blanks. (Be sure to use two commas before the <separator>.)

If <name> is specified, the function will check for the existence of that resource and return a Boolean success flag.

Example:

```
say show(p);           >>> REXX AREXX ConClip.rendezvous blanker
say show(c);           >>> Molloy
say show(c,'Molloy');  >>> 1
say show(p,, '0a'x);   >>> REXX
                        AREXX
                        ConClip.rendezvous
                        blanker
```

If 'L' is specified as the argument, a list of currently available ARexx function libraries is returned. The support library function SHOWLIST() , on the other hand, returns a list of all system libraries available when the same argument is used.

SHOW('P') will return a list of all public message ports available on the system. Some of those ports cannot be used as hosts for commands from ARexx.

Also see @{" SHOWLIST " link SHOWLIST() }

Next: SHOWDIR() | Prev: DATE() | Contents: Information func.

1.32 ARexxGuide | Functions reference | Informative (3 of 5) | SHOWDIR

`SHOWDIR`(<directory>, ['ALL' | 'FILE' | 'DIR'], <separator>)
 a rexxsupport.library function
 returns a string

The result is a list of files matching the type specified by the second argument and located in the <directory> specified.

The <separator> can be any character (including a null). It can be used to separate filenames with a character (such as '0a'x) that cannot be used in a filename.

Examples:

```
say showdir('sys:rexxc');
>>> HI RX RXC RXLIB RXSET TCC TCO TE TS WaitForPort
```

```
Also see @{" SHOWLIST      " link SHOWLIST()}
          @{" STATEF      " link ARx_Func3.ag/STATEF()}
          @{" PRAGMA      " link ARx_Func3.ag/PRAGMA() }
```

The function library `rexxarplib.library`, which is available on many networks and bulletin boards, includes a function, `FILELIST()`, that is more versatile since it will list only those files matching a specified pattern.

Next: `SHOWLIST()` | Prev: `SHOW()` | Contents: Information func.

1.33 ARexxGuide | Functions reference | Informative (4 of 5) | SHOWLIST

`SHOWLIST`(<option>, [<name>], [<separator>], ['A'])
 a rexxsupport.library function
 returns a string
 or a Boolean value

Returns a list of system resources matching the specified <option> and separated by the optional <separator> character.

If <name> is specified, the function will check for the existence of that resource and return a Boolean success flag.

The <separator> can be any character, including '0a'x, which is a convenient way to separate names in the list.

The optional fourth argument 'Address' or 'A' specifies that the function is to return the address of the located node, and is valid only if a node name (second argument) has been supplied. The 'Address' option is valid for both EXEC and DOS lists.

Examples:

```
say showlist(L); >>> utility.library graphics.library keymap.library ...
say showlist(L,'rexxsupport.library'); >>> 1
say showlist(M); >>> expansion memory chip memory
say showlist(M,','+'); >>> expansion memory+chip memory
say showlist(D); >>> gameport.device timer.device keyboard.device ...
```

```

say showlist(V,, '|');      >>> XFER|WK|RAM DISK|HD1|HD0
say showlist(R); >>> potgo.resource ciaa.resource ciab.resource ...
say showlist(A,'FONTS'); >>> 1
say c2d(showlist(L , 'amigaguide.library',,A))
                        >>> 5153220          /* for example */

```

```

Also see @{" SHOW          " link SHOW()}
         @{" SHOWDIR      " link SHOWDIR()}
         @{" PRAGMA       " link ARx_Func3.ag/PRAGMA()}

```

Next: TIME() | Prev: SHOWDIR() | Contents: Information Func.

1.34 ARexxGuide | Functions reference | Informative | showlist (1 of 1) | OPTIONS

Any <option> to SHOWLIST() (some of them esoteric) may be specified by using only the single character capitalized in the list below:

Option	Information returned
Ports	Same information as SHOW('P'): all named message ports.
Libraries	All system libraries, not just ARexx libs.
Volumes	The volume names of all disks currently available.
Assign	The names of all assigned directories.
Handlers	The AmigaDOS interfaces to hardware devices. Includes names like DF0, PRT, CON.
Devices	The lower-level interface to hardware. Might include names like 'scsi.device', 'keyboard.device'.
Resources	The lowest-level software interface to some hardware elements of the machine. The resources cannot be accessed from ARexx, but this option returns names like 'potgo.resource'.
Memory-types	Will usually return 'expansion memory chip memory'.
Waiting	A list of all the many tasks waiting for something to happen on the system.
Task-ready	A list of tasks ready to be called to task by the scheduler.
Semaphores	Used by some software to prevent conflicting access to facilities it controls. (Since AmigaGuide uses semaphores, there may be an item on the list for this application.)
Interrupts	A list of node names on the list of interrupts in the Exec Library structure.

<option> can, reportedly, be given as the (4-byte) absolute address of a list header; the function performs several tests to make sure that it really is a header.

Next, Prev. & Contents: SHOWLIST()

1.35 ARexxGuide | Functions reference | Informative (5 of 5) | TIME

TIME(<option>
 returns a formatted string

Without arguments, the result is the current system time in Normal 24-hour clock format -- hh:mm:ss

The <option> argument (C|E|H|M|N|R|S) determines the format of the result and controls the elapsed time counter .

Examples:

```
say time()           >>> 20:08:52
say time(c)         >>> 8:08PM
say time(h)         >>> 20
say time(m)         >>> 1208
say time(s)         >>> 72532
call time(r);call delay 500;say time(e) >>> 10.06
```

```
Also see @{ " DATE           " link DATE() }
          @{ " DELAY        " link ARx_Func3.ag/DELAY() }
```

NOTE: Persistence of TIME() value

Next: Information func. | Prev: SHOWLIST() | Contents: Information func.

1.36 ARexxGuide | Functions reference | Informative | TIME (1 of 1) | OPTIONS

The following <option> keywords are available for the TIME():

Keyword	Description
Civil	Current time in civil format: hh:mm[AM PM]
Elapsed	Elapsed time in seconds
Hours	Current time in hours since midnight
Minutes	Current time in minutes since midnight
Normal	Default 24-hour format: hh:mm:ss
Reset	Reset the elapsed-time clock
Seconds	Current time in seconds since midnight

Only the first letter of the option need be used.

Next, Prev. & Contents: TIME()