



Latin American and Caribbean Center on Health Sciences Information
Pan American Health Organization | World Health Organization



League of Arab States
General Secretariat

الأمانة العامة لجامعة الدول العربية

CISISS

x. 4

2007 - 2005 -

CISIS

GNU Free) GNU

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1.2

/
(Documentation License

"

."GNU

()

BIREME / PAHO/WHO, .CISIS

2005 BIREME / OPS / OMS : .()

.2007 -

42

.4 . .3 . .2 . .1

BIREME .LAS III . .6 . .5 .

.II

BIREME / OPS / OMS

BIREME / OPS / OMS

11642 .

BIREME

(NorDoc)

VI	.....
VIII	.....
1	.....
1	.....	BIREME
2	.....	(VHL)
4	.....
5	.....
5	.....	<format specification>
6	.....
6	.....	# % " ' | | () / /* @
6	.....	#
6	.....	%
7	.....	"string"
7	.....	'string'
7	.....	|string|
8	.....	(format)
8	.....	/
8	.....	/*string*/
9	.....	@
9	.....	A
9	.....	a(field selector)
10	.....	B
10	.....	break

10	.....	C
10	.....	<i>c</i>
10	.....	<i>cat(file)</i>
11	.....	<i>continue</i>
12	.....	D
12	.....	<i>d</i>
12	.....	<i>date date(keyword)</i>
13	.....	<i>datex</i>
13	.....	E
13	.....	<i>e0 .. e9</i>
14	.....	F
14	.....	<i>f(num expr, length, decimals)</i>
14	.....	G
14	.....	<i>getenv(expression)</i>
14	.....	I
14	.....	<i>if ... then ... else ... fi</i>
15	.....	<i>instr(string1, string2)</i>
15	.....	<i>iocc</i>
16	.....	L
16	.....	<i>l(key) l([inverted file], key)</i>
16	.....	<i>left(string, length)</i>
17	.....	<i>lw(number)</i>
17	.....	M
17	.....	<i>mdl, mdu, mhl, mhu, mpl, mpu</i>
18	.....	<i>mfn mfn(length)</i>
18	.....	<i>mid(string, start, length)</i>
18	.....	<i>mstname</i>
19	.....	N
19	.....	<i>n</i>
19	.....	<i>newline(string)</i>
19	.....	<i>nocc(field)</i>
20	.....	<i>npost(key) npost([inverted file], key)</i>
20	.....	P
21	.....	<i>p(field selector)</i>
21	.....	<i>proc(field update format)</i>
21	.....	<i>putenv(expression)</i>
22	.....	R
22	.....	<i>ravr(string)</i>
22	.....	<i>ref(mfn, format) ref([master file]mfn, format)</i>
23	.....	<i>replace(string1, string2, string3)</i>
23	.....	<i>right(string, length)</i>
24	.....	<i>rmax(string)</i>
24	.....	<i>Rmin(string)</i>
24	.....	<i>Rsum(string)</i>
25	.....	S
25	.....	<i>s0 ... s9</i>
25	.....	<i>s(expression)</i>
26	.....	<i>seconds</i>
26	.....	<i>select ... case ... elsecase ... endsel</i>
27	.....	<i>size(string)</i>

27	.....	<i>system(expression)</i>	
27	.....		T
28	.....	<i>type(string)</i>	
28	.....		U
28	.....		V
28	.....		V
29	.....	<i>val(string)</i>	
30	.....		W
30	.....	<i>while</i>	
31	.....		X
31	.....		X
32	.....	
33	.....	

.ANSI •
.ASCII •
.BIREME •
.BVS •
.CDS •
.FST •
.FTP •
.IFP •
.ISIS •
.ISO •
.LILACS •

CISIS

.OMS •

.OPS •

.()

.UNESCO •

BIREME

BIREME

)" " 1967

(BIREME

" 1982 .

"

.BIREME

.BIREME

: BIREME

J
J

CISIS

J

(WHO)

/(PAHO)

BIREME

)

BIREME

PAHO

.(Unifesp –

2004

(VHL)

(VHL)

1998

BIREME

BIREME

30

1000

() SciELO

		:		
		CDS/ISIS	-	
BIREME			-	
		:	CDS/ISIS	
			CISIS	-1
			.CISIS	-2
			.IsisScript	-3
.CISIS	:CDS/ISIS			-4
			.IAH	-5
			.WWWISIS	-6

% " "" | | () / / * @

#

#

1 #,("address:"v3(9,9)+|;|#),

2 (|Name: |v1^n,c20,|Surname:|v1^s/),###,

/
%

%

1 |Name: |v1^n,c20,|Surname:|v1^s,###,%/,

2 v10/#,v20/#,v30/#,%#,

/
#

```

"string"
:
"<text>"<field selector >"<text>"
:
"<text>"<dummy field (selector)>
"<text>"<not present>
  <field
    .TRUE    <not present>  <dummy selector>  selector>
    <field selector>
      <dummy selector>
        <not present>
          <text>
:
:
1  "Author: "v1^a,
2  "this text outputs if data field 10 is present"d10,
3  "this text outputs if data field 10 is absent"n5,
'string'
|string|
d
n
v

```

```

"string"
:
'<text>'
:
:
:
1  'this text will always output',
2  'Name: ',v1/,
"string"
|string|

```

```

|string|
:
|<text>|<+><field selector><+>|<text>|
:
:
.<+>
/
.TRUE
<+>

```

```

|string|
.<+>
:
<+>
.
:
1 (|; |+v1^s,|,|v1^n*0.1|.|),
2 (v10|: |, ,v11,| - |v12),
"string"
'string'
(format)
v

```

```

.(format)
:
(<format>)
:
:
1 (|; |+v2^s/),
2 (v1,c15,v2,c35,v3/),
3 (if iocc<=3 then f(iocc,1,0),| - |v3/ else '-> more than 3'/, fi),
|string|
v

```

```

/
/
:
:
:
1 v1/, (/,,/,/)
2 v1/,v3/,v10/,mfn/,
3 s(v1,v3,v10)/,
#
%

```

```

/*string*/
CISIS
/* <comment> */
:
:
:
1 /* this is a single line comment */,

```




ravr :

B



break

CISIS :

Break :

ref :

1 (if iocc > 10 then '10+ occurrences'/,**break** else v5^n|-|,v5^s/, fi),

(format) :

C



c

c<int> :

1 'Name: ',c10,v1^n/,

2 if p(v1^s) then c10,v1^s/, fi,

X :



% :



cat(file)

CISIS :

cat(<format>) :

.<format> :

```

cat(file)
:
1 mfn,cat('myfile.html'),
2 cat('current document'/, ,if v10='c' then 'firstdoc.txt' else 'default.doc' fi),
3 cat(v10),

```

```

s
:
```

```

/*string*/
:
```

```

s
:
```

```

select ... case ... elsecase ... endsel
:
```

```

if ... then ... else ... fi
:
```

```

"string"
:
```

```

|string|
:
```

```

/
:
```

```

continue
:
```

```

CISIS
continue
:
```

```

1 (if iocc = 1 then continue else v10/ fi),
:
```

```

2 (f(iocc,1,0),'=',v70,continue/),
:
```

```

(format)
:
```

```

val
:
```

```

f
:
```

putenv :

date :

D

d :

d<field tag><subfield> :

<subfield>

1 "this text outputs if data field 10 exists"**d10**, :

2 "Name: "v20(5,5)/, "Name: "n20,v21(5,5)/,

"string" :
n
v

date
date(keyword)

CISIS :

date :
date(<keyword>)

yyyymmdd hhmmss w nnn

- :
- = yyyy
- = mm
- = dd
- = hh
- = mm
- = ss
- = w
- = nnn

(6-0)

DATEONLY DATETIME

DATETIME

dd/mm/yy) :

DATEONLY (hh:mm:ss)

1 "Today is ',**date**,

	date date(keyword)
2 'Current date: ', date (DATEONLY)/, ', 'Current time: 'mid(date (DATETIME),10,8)/,	

	datex
CISIS	:
datex (<fmt> 00:00:001970	: DATE <fmt> SECONDS
mx null "pft= datex(1147780749) /"	: date seconds

	lw
	:

	cat
	:

E

	e0 .. e9
CISIS	:
e<n>:=<numeric expression>	: . e0 .. e9 10 CISIS
if e1+10<25 then ... fi	: f
e1:=val(v10 + 5)	: s0 ... s9 f

	left
	:

	right
	:

F

	f(num expr, length, decimals)	:
		:
f (<format>,<expr-1>,<expr-2>)		:
<expr-1>.<format>		:
<exp-1>	<exp-2>	:
.<format>	1>	:
.<exp-2>	<exp-1>	:
.<format>	<exp-1>	:
16		:
1 f(val(v1),2),		:
2 f(((3+5)/2)+1,4,2),		:
3 f(v2),		:
	val	:
	v	:

G

	getenv(expression)	:
CISIS		:
getenv (<format>)		:
	<format>	:
1 'Current path: ', getenv ('PATH'),		:
2 (v1|=|,getenv (v1)/),		:
	putenv	:

I

	if ... then ... else ... fi	:
if <bool expr> then <format-1> [else <format-2>] fi		:

```

if ... then ... else ... fi
<bool expr> (<format-1>) :
else (<format-2>) .TRUE
.FALSE <bool expr>
else then :
fi
if ... fi
1 ,if instr(v5,'ab')>0 then ,v5/, fi, :
2 ,if p(v10) then ,|Title: |v3, else ,|Alternate title: |v4, ,fi,

```

```

@ :
iocc :
X :

```

```

instr(string1,string2)
CISIS :
instr(<format-1>,<format-2>) :
<format-2> :
(<format-2>) .<format-1> :
<format-2> <format-1> <format-1> :
s :
1 if instr(v5,'ab')>0 then v5/, fi,
2 if instr(s('|v1|'),v5)>0 then v1, fi,
3 left(v18,instr(v18,'.')->1),

```

```

iocc
CISIS :
iocc :
(1 ) :
1 ("Author: "v1/, ,if iocc > 3 then 'et al.',break, fi), :
2 (f(iocc,3,0),|.v10/),
nocc :

```

L

	l(key)
	l([inverted file],key)
/CISIS	:
	:
l (<format key>)	:
l ([<format ifname>]<format key>)	:
l->ifname (<format key>) (compatible with Unesco's Winisis)	
<format () MFN key>	:
.<format ifname>	:
<format key> FST .mpl	:
.<format ifname>	:
ref	:
1 if l (v15)<> 0 then |Term: |v15, fi,	
2 ref (l (['books']v1,'-',v2),v10/),	
3 ref->books (l->books (v1,'-',v2),v10/),	
ref	:

	left(string,length)
CISIS	:
	:
left (<format-1>,<format-2>)	:
n	:
.<format-2> n . <format-1>	:
<format-2>	:
<format-1> .<format-1>	:
.NULL 2>	:
1 if left (v1^n,2)='Ma' then v1^n/, fi,	
2 left (v1,instr(v1,'.')->1),	
right	:
mid	:

	size function
	:

```

                                                                    lw(number)
CISIS                                                                    :
                                                                    :
lw(<int>)                                                                    :
                                                                    :
                                                                    <int>
                                                                    76
                                                                    :
                                                                    :
1  if size(v10) > 76 then lw(254), fi,
2  lw(70),v20/,lw(10),v30/,

```

M

```

                                                                    rmax
                                                                    :

                                                                    mdl, mdu,
                                                                    mhl, mhu,
                                                                    mpl, mpu
                                                                    :
m<mode><conv>                                                                    :
                                                                    :
<conv> . <mode> .mpl                                                                    :
      MODE .                                                                    :
                                                                    :
                                                                    : <mode>
                                                                    : = p
                                                                    : = h
                                                                    : = d
                                                                    : <conv>
                                                                    ( = u) : u
                                                                    ( = l) : l
                                                                    :
1  mpl,"First author: "v10[1]/,
2  mpu,"Second author: "v10[2]/,
3  mdl,"Third author: "v10[3]/,

```

		mfn
		mfn(length)
		:
		:
	mfn	:
mfn (<int>)	(Master File Number) MFN	:
mfn	.MFN	:
1	'Record: ', mfn (3)/,	:
2	if mfn > 2 then mfn /, fi,	
3	ref(mfn -1,v2/),	
	ref	:
	1	

		mid(string, start, length)
CISIS		:
		:
mid (<format-1>,<format-2>,<format-3>)		:
.(<format-1>)		:
<format-2>	<format-1>	
	<format-1>	
	<format-1>	
	<format-2>	
.1	<format-2>	.NULL
1	mid (v2,2,80),	:
2	mid (v1,instr(v1,'key'),size(v1)),	
	right	:
	left	

		rmin
		:

		mdl, mdu, mhl, mhu, mpl, mup
		:

		mstname
CISIS		:
		:
mstname		:
1	'Current database: ', mstname /,	:

mstname
 2 ref(['names']|(['names']X39BJ), ,Database now is ',**mstname**/),

N

n
 n<field tag> :
 :
 :
 :
 :
 1 "this text outputs if data field 10 is absent"**n**10, :
 2 "Author:"v10/, ,"Author: "**n**10,v20/, :
 "string" :
 d
 v

mstname :

/ **newline(string)**
 CISIS :
 :
newline(<format>) :
 () CR/LF / :
 : <format> :
 : <format> :
 /r -
 \n -
 <format> (/) **newline**
 ()
 1 **newline**(if v151='unix' then '\n' else '\r\n' fi, :
 2 **newline**(v301),
 3 **newline**('
'),
 / :
 #

nocc(field)

CISIS :

nocc(<field selector> :

<field :

.selector> :

<field selector> :

<field selector> :

1 if **nocc**(v3)> 10 then 'Too many occurrences.', fi,

2 'There are ',f(**nocc**(v20),2,0),' authors.',

iocc :

v

npost(key)

npost([inverted file],key)

CISIS :

npost(<format key> :

npost([<format>],<format key>) :

(<format key>) :

<format> :

<format key> . :

1 if **npost**(v1)> 1 then 'duplicate key ',v1,' found', fi,

2 'There are ',f(**npost**(v20),3,0),'keys for ',v20,'.',

l :

nocc

nocc :

mfn

mfn :

ref(mfn, format)
ref([master file]mfn, format)

- 2 if **ref**(['account']|(['user']v2),v4)='active' then |Name: |v10/, fi,
- 3 (if p(v99) then **ref**([v99]1,v30/), fi),
- 4 **ref->books(1->books(v1,'-',v2),v10/),**

1 :

(format) :

replace(string1, string2, string3)

CISIS

replace(<format-1>,<format-2>, <format3>)

<format-1> <format-3> <format-2>

<format-1>

<format-2>

.<format-1> <format-2>

.<format-1>

:

.(<format-3>)

Replace

(<format-2>)

- 1 **replace**('Mary And John','And','and')/,
- 2 if **replace**(v1^a,'01x','01X')= '894501X' then v1^n/, fi,
- 3 **replace**(s(v304,v333),',', '/),
- 4 **replace**(s(if v415='spanish' then v299 else 'none' fi),v1,v759)/,

mid :

right(string, length)

CISIS

right(<format-1>,<format-2>)

<format-1>

n

.<format-2>

n

<format-1>

<format-2>

<format-2>

.<format-1>

right(string, length)

- ```

1 if right(v1^n,1) = 'r' then v1^n/, fi,
2 right(v65,4)/,

```

**rmax(string)**

- ```

rmax(<format>
      .          <format> .
      .
1  f(rmax('72,54,2'),2,0),
2  f(rmax(v1,x1,v4,x1,(v8|,)),5,2),
3  if rmax(v40|;|)>val(v41) then 'Limit of ',v41,'exceeded.'/, fi,

```

```

      rmin
      ravr
rsum

```

Rmin(string)

- ```

rmin(<format>
 . <format> .
 . rmin rmax
1 f(rmin('10;2;5;4;-2'),2,0),
2 f(rmin(v1,x1,v2,x1,'44'),4,2),
3 if rmin(v80|,v90| |,v100| |) < 1990 then 'Wrong decade.'/, fi,

```

```

 rmax
 ravr
rsum

```

**Rsum(string)**

- ```

rsum(<format>
      .          <format> .
      .          rsum      rmin rmax
1  f(rsum('102,45,-37'),2,0),

```

Rsum(string)

```
2 f(rsum(v1,x1,v3,x1,f(val(v8)+2)),4,2),
3 if rsum(v20^d)>1000 then 'Aborted.'/ else 'OK'/, fi,
```

rmax :
 ravr :
 rmin :

S

s0 ... s9

```
CISIS :
:
s<n>:=(<fmt>) :
:
.e0 .. e9 10 CISIS :
:
:
s1:=('CDS/ISIS') :
s3:=(v10) :
:
e9 e0 .. :
f :
```

s(expression)

```
s(<format>)[command component] :
:
.<format> :
:
<offset int>. :
:
<length int> . <length int> :
:
:
1 if s(v1,v2,v3):'ABCDE' then s(v1,v2,v3)*0.50, fi,
2 if s(|*|v5*|):s('*E*')then 'English'/, fi,
```

v :

l :

```

instr :
CISIS :
seconds(<fmt>) :
00:00:00 1970 :
<fmt> :
'yyyymmdd' :
'yyyymmdd hh' :
'yyyymmdd hhmm' :
'yyyymmdd hhmmss' :
<fmt> :
'20380118 031407' '19790102 000000' :
86400 =60? 60? 24 :
mx null "pft=date/f(seconds(date) - seconds(20010305 172915'),1,0)" :
will display :
20010305 172916 1 63 :
1.. :
20010305 172916 1 63 :
2.. :
20010305 172916 1 63 :
3.. :
date :
datex :

```

```

select ... case ... elsecase ... endsel
CISIS :
select <format expr> :
case <option-1>: <format-1> :
case <option-2>: <format-2> :
case <option-n>: <format-n> :
[elsecase <format-0>] :
endsel :
    <option-1> case <format expr> :
    <format expr> . (<option-2>...<option-n> :
    ( <format-2>...<format-n> <format-1>) :
    (<format-0>) elsecase <format expr> :
    <format expr> . case <format expr> :
    . case <format expr> :
1 select s(v5) :
case '1': ,f(val(v5)/2,2,2)/, :
case '2': ,v5/, :
case '3': ,v6,'-',v1/, :
elsecase ,|Error in field v5 = |v5/, :
endsel, :

```

select ... case ... elsecase ... endsel

```

2  select nocc(v7)
   case 0: 'absent',
   case 1: 'one occurrence',
   case 2: 'two occurrences',
   elsecase 'more than 2 occurrences',
   endsel,

```

```

if ... then ... else ... fi

```

:

size(string)

CISIS

:

```

size(<format>)

```

:

<format>

:

```

1  if size(v10) > 76 then lw(254), fi,

```

:

```

2  f(size(v10,v20),1,0),

```

rsum

:

system(expression)

CISIS

:

```

system(<format>)

```

:

<format>

:

<format>

:

```

1  system('dir'),

```

:

```

2  if p(v2) then system('type ',v2), fi,

```

T

```

type function

```

:

```

type(string)
CISIS
type(<format>)
)
(9-0)
.
1 if type(v1)='N' then f(val(v1),3,2)/ else v1/, fi,
2 if s(type(v1),type(v2),type(v3))<>'AAA' then 'Invalid character type detected',
fi,

```

U

```

'string'
#
proc

```

V

```

v
v<field tag>[command components]
v .( )
^<subfield id> [<index>[.<upper index>]] *<offset int>.<length int> (<first line
int>,<next line int>)

```



```

val(string)
<format>
:
1 if val(v2)>5 then 'Error'/ else 'OK'/, fi,
:
2 f(val(v2)/3,4,2),
:
d
:

```

W

```

while
CISIS
while <condition> (<fmt>)
:
:condition
:fmt
CISIS WHILE
:
False
:
:fmt
:
e1:=1,
e2:=nooc(v16),
while e1<=e2
( f(e1,1,0),',', v16[e1]/
e1:=e1+1,
),
( ) V16
1.primero autor
2.segundo autor
3.tercer autor
if ... then ... else ... fi
select ... case ... elsecase ... endsel

```


- .1
) :*ISIS/micro CDS-Mini* .UNESCO
 1989 : .Giampaolo Del Bigio
 .ISBN 92-3-102-605-5 286
- .2
] *The CDS/ISIS for Windows Handbook*.
 30] 2001 :
 : 164 .[2006
 <<http://bvsmodelo.bvs.br/download/winisis/winisis-handbook-en.pdf>>.
- .3
Manual para : .[] “Prehistoria” e historia of the MicroISIS.
 Centro Atómico Constituyentes (CAC), : *.instructores of Winisis*
 30] 1999 Comisión Nacional of Energía Atómica (CNEA)
 : .26-21 .[2006
 .<<http://www.cnea.gov.ar/cac/ci/isis/isidams.htm>>

```

.
)
.
:      B*tree
(L01. .N01      )  10
.(L02 N02      )  10
  B*tree      .NOx      .B*tree      .CNT
.              .Lox
              (      )
              .IFP
)              /
              (
.
.
.

```

