

# Package ‘rhli’

August 17, 2018

**Title** An R Implementation of the FIS MarketMap C-Toolkit

**Version** 0.0.2

**Description** Complete access from 'R' to the FIS 'MarketMap C-Toolkit' ('FAME C-HLI'). 'FAME' is a fully integrated software and database management system from FIS that provides the following capabilities:  
Time series and cross-sectional data management;  
Financial calculation, data analysis, econometrics, and forecasting;  
Table generation and detailed multicolor, presentation-quality report writing;  
Multicolor, presentation-quality graphics;  
``What-if' analysis;  
Application development and structured programming;  
Data transfer to and from other applications;  
Tools for building customized graphical user interfaces.

**Depends** R (>= 3.5)

**License** AGPL

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.0

**Imports** methods

**Suggests** testthat

**URL** <https://github.com/qomaio/rhli>

**BugReports** <https://github.com/qomaio/rhli/issues>

**SystemRequirements** GNU make

**NeedsCompilation** yes

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**Repository** CRAN

**Date/Publication** 2018-08-17 17:30:03 UTC

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cfmabrt	cfmabrt
---------	---------

---

### **Description**

Abort a unit of work on a connection.

### **Usage**

cfmabrt(status, connkey)

### **Arguments**

status	Integer
connkey	Integer

---

cfmalob	cfmalob
---------	---------

---

**Description**

Add a new object and specify its allocation.

**Usage**

```
cfmalob(status, dbkey, objnam, class, freq, type, basis, observ, numobs,
        numchr, growth)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
class	Integer
freq	Integer
type	Integer
basis	Integer
observ	Integer
numobs	Integer
numchr	Integer
growth	Numeric

---

cfmasrt	cfmasrt
---------	---------

---

**Description**

Check for database changes during a unit of work.

**Usage**

```
cfmasrt(status, connkey, assert_type, assertion, perspective, grouping,
        dblist)
```

**Arguments**

status	Integer
connkey	Integer
assert_type	Integer
assertion	Character
perspective	Integer
grouping	Integer
dblist	Integer

---

cfmbwdy	cfmbwdy
---------	---------

---

**Description**

Get the biweekday of a date.

**Usage**

```
cfmbwdy(status, freq, date, biwkdy)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
biwkdy	Integer

---

cfmchfr	cfmchfr
---------	---------

---

**Description**

Change a date to a different frequency.

**Usage**

```
cfmchfr(status, sfreq, sdate, select, tfreq, tdate, relate)
```

**Arguments**

status	Integer
sfreq	Integer
sdate	Integer
select	Integer
tfreq	Integer
tdate	Integer
relate	Integer

---

cfmclcn	cfmclcn
---------	---------

---

**Description**

Close a connection to a FAME Database Server.

**Usage**

cfmclcn(status, connkey)

**Arguments**

status	Integer
connkey	Integer

---

cfmcldb	cfmcldb
---------	---------

---

**Description**

Close a database.

**Usage**

cfmcldb(status, dbkey)

**Arguments**

status	Integer
dbkey	Integer

---

cfmcmmt	cfmcmmt
---------	---------

---

**Description**

Commit a unit of work on a connection.

**Usage**

```
cfmcmmt(status, connkey)
```

**Arguments**

status	Integer
connkey	Integer

---

cfmcpob	cfmcpob
---------	---------

---

**Description**

Copy one object to another.

**Usage**

```
cfmcpob(status, srckey, tarkey, srcnam, tarnam)
```

**Arguments**

status	Integer
srckey	Integer
tarkey	Integer
srcnam	Character
tarnam	Character

---

cfmdatd	cfmdatd
---------	---------

---

**Description**

Convert a date to a year, month, and day.

**Usage**

```
cfmdatd(status, freq, date, year, month, day)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
year	Integer
month	Integer
day	Integer

---

cfmdatf	cfmdatf
---------	---------

---

**Description**

Convert a date to a fiscal year and period.

**Usage**

```
cfmdatf(status, freq, date, year, period, fmonth, flabel)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
year	Integer
period	Integer
fmonth	Integer
flabel	Integer

---

cfmdati	cfmdati
---------	---------

---

**Description**

Convert a date to a string using an image.

**Usage**

```
cfmdati(status, freq, date, datstr, image, fmonth, flabel)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
datstr	Character
image	Character
fmonth	Integer
flabel	Integer

---

cfmdatl	cfmdatl
---------	---------

---

**Description**

Convert a date to a date literal string.

**Usage**

```
cfmdatl(status, freq, date, datstr, fmonth, flabel)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
datstr	Character
fmonth	Integer
flabel	Integer

---

cfmdatp	cfmdatp
---------	---------

---

**Description**

Convert a date to a year and period.

**Usage**

```
cfmdatp(status, freq, date, year, period)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
year	Integer
period	Integer

---

cfmdatt	cfmdatt
---------	---------

---

**Description**

Convert an intraday date to a daily date and time.

**Usage**

```
cfmdatt(status, freq, date, hour, minute, second, ddate)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
hour	Integer
minute	Integer
second	Integer
ddate	Integer

cfmddat

cfmddat

---

**Description**

Convert a year, month, and day to a date.

**Usage**

```
cfmddat(status, freq, date, year, month, day)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
year	Integer
month	Integer
day	Integer

---

cfmddescfmddes

---

**Description**

Set a database's DESCRIPTION attribute.

**Usage**

```
cfmddes(status, dbkey, des)
```

**Arguments**

status	Integer
dbkey	Integer
des	Character

---

cfmddoc	cfmddoc
---------	---------

---

**Description**

Set a database's DOCUMENTATION attribute.

**Usage**

```
cfmddoc(status, dbkey, doc)
```

**Arguments**

status	Integer
dbkey	Integer
doc	Character

---

cfmdlen	cfmdlen
---------	---------

---

**Description**

Get the length of an object's DESCRIPTION and DOCUMENTATION attributes.

**Usage**

```
cfmdlen(status, dbkey, objnam, deslen, doclen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
deslen	Integer
doclen	Integer

---

cfmdlob	cfmdlob
---------	---------

---

**Description**

Delete an object.

**Usage**

```
cfmdlob(status, dbkey, objnam)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character

---

cfmexpiration	cfmexpiration
---------------	---------------

---

**Description**

Get the license expiration date.

**Usage**

```
cfmexpiration(status, date)
```

**Arguments**

status	Integer
date	Integer

---

cfmfame	cfmfame
---------	---------

---

**Description**

Send the FAME process a command to be executed.

**Usage**

cfmfame(status, cmd)

**Arguments**

status	Integer
cmd	Character

---

cfmfdat	cfmfdat
---------	---------

---

**Description**

Convert a fiscal year and period to a date.

**Usage**

cfmfdat(status, freq, date, year, period, fmonth, flabel)

**Arguments**

status	Integer
freq	Integer
date	Integer
year	Integer
period	Integer
fmonth	Integer
flabel	Integer

---

cfmfdiv	cfmfdiv
---------	---------

---

**Description**

See if one frequency is evenly divisible by another.

**Usage**

```
cfmfdiv(status, freq1, freq2, flag)
```

**Arguments**

status	Integer
freq1	Integer
freq2	Integer
flag	Integer

---

cfmferr	cfmferr
---------	---------

---

**Description**

Get the text of the FAME error.

**Usage**

```
cfmferr(status, errtxt)
```

**Arguments**

status	Integer
errtxt	Character

---

cfmfin	cfmfin
--------	--------

---

**Description**

Finish the C HLI.

**Usage**

```
cfmfin(status)
```

**Arguments**

status	Integer
--------	---------

**Examples**

```
status <- Integer(-1L)
cfmfin(status)
```

---

cfmgcid	cfmgcid
---------	---------

---

**Description**

Get the connection key for a database key.

**Usage**

```
cfmgcid(status, dbkey, connkey)
```

**Arguments**

status	Integer
dbkey	Integer
connkey	Integer

---

cfmgdat	cfmgdat
---------	---------

---

**Description**

Get an object's creation and last modification dates.

**Usage**

```
cfmgdat(status, dbkey, objnam, freq, cdate, mdate)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
freq	Integer
cdate	Integer
mdate	Integer

---

cfmgdba	cfmgdba
---------	---------

---

**Description**

Get database attributes.

**Usage**

```
cfmgdba(status, dbkey, cyear, cmonth, cday, myear, mmonth, mday, desc, doc)
```

**Arguments**

status	Integer
dbkey	Integer
cyear	Integer
cmonth	Integer
cday	Integer
myear	Integer
mmonth	Integer
mday	Integer
desc	Character
doc	Character

---

cfmgdbd	cfmgdbd
---------	---------

---

**Description**

Get a database's creation and last modification dates.

**Usage**

cfmgdbd(status, dbkey, freq, cdate, mdate)

**Arguments**

status	Integer
dbkey	Integer
freq	Integer
cdate	Integer
mdate	Integer

---

cfmget_dimension	cfmget_dimension
------------------	------------------

---

**Description**

Get the dimension attribute for a database.

**Usage**

cfmget\_dimension(status, dbkey, dimen)

**Arguments**

status	Integer
dbkey	Integer
dimen	Integer

---

cfmget_extradots	cfmget_extradots
------------------	------------------

---

**Description**

Get the extradots attribute for a database.

**Usage**

```
cfmget_extradots(status, dbkey, xdots)
```

**Arguments**

status	Integer
dbkey	Integer
xdots	Integer

---

cfmglen	cfmglen
---------	---------

---

**Description**

Get the length of a database's DESCRIPTION and DOCUMENTATION attributes.

**Usage**

```
cfmglen(status, dbkey, deslen, doclen)
```

**Arguments**

status	Integer
dbkey	Integer
deslen	Integer
doclen	Integer

---

cfmgnam	cfmgnam
---------	---------

---

**Description**

Get an object's real name.

**Usage**

cfmgnam(status, dbkey, objnam, basnam)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
basnam	Character

---

cfmgsln	cfmgsln
---------	---------

---

**Description**

Get an object's STRINGLENGTH attribute.

**Usage**

cfmgsln(status, dbkey, objnam, length)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
length	Integer

---

cfmgtali	cfmgtali
----------	----------

---

**Description**

Get an object's ALIAS attribute.

**Usage**

cfmgtali(status, dbkey, objnam, aliass, inlen, outlen)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
aliass	Character
inlen	Integer
outlen	Integer

---

cfmgtaso	cfmgtaso
----------	----------

---

**Description**

Get an object's ASSOCIATE attribute.

**Usage**

cfmgtaso(status, dbkey, objnam, assoc, inlen, outlen)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
assoc	Character
inlen	Integer
outlen	Integer

---

cfmgtatt_char	cfmgtatt_char
---------------	---------------

---

**Description**

Get the value of a user-defined Character attribute.

**Usage**

```
cfmgtatt_char(status, dbkey, objnam, atttyp, attnam, value, inlen, outlen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
value	Character
inlen	Integer
outlen	Integer

---

cfmgtatt_double	cfmgtatt_double
-----------------	-----------------

---

**Description**

Get the value of a user-defined Numeric attribute.

**Usage**

```
cfmgtatt_double(status, dbkey, objnam, atttyp, attnam, value, inlen,
  outlen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
value	Numeric
inlen	Integer
outlen	Integer

---

cfmgtatt_float	cfmgtatt_float
----------------	----------------

---

**Description**

Get the value of a user-defined Numeric attribute.

**Usage**

```
cfmgtatt_float(status, dbkey, objnam, atttyp, attnam, value, inlen, outlen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
value	Numeric
inlen	Integer
outlen	Integer

---

cfmgtatt_int	cfmgtatt_int
--------------	--------------

---

**Description**

Get the value of a user-defined Integer attribute.

**Usage**

```
cfmgtatt_int(status, dbkey, objnam, atttyp, attnam, value, inlen, outlen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
value	Integer
inlen	Integer
outlen	Integer

---

cfmgtnl	cfmgtnl
---------	---------

---

**Description**

Get an element of a namelist or the whole namelist.

**Usage**

```
cfmgtnl(status, dbkey, objnam, index, strval, inlen, outlen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
index	Integer
strval	Character
inlen	Integer
outlen	Integer

---

cfmgtstr	cfmgtstr
----------	----------

---

**Description**

Get a single string value.

**Usage**

```
cfmgtstr(status, dbkey, objnam, range, strval, ismiss, inlen, outlen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
strval	Character
issmiss	Integer
inlen	Integer
outlen	Integer

---

cfmgtsts	cfmgtsts
----------	----------

---

**Description**

Get a range of string values.

**Usage**

```
cfmgtsts(status, dbkey, objnam, range, strary, misary, inlenary, outlenary)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
strary	Character vector
misary	Integer vector
inlenary	Integer vector
outlenary	Integer vector

---

cfmidat	cfmidat
---------	---------

---

**Description**

Convert a string to a date using an image.

**Usage**

```
cfmidat(status, freq, date, datstr, image, fmonth, flabel, centry)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
datstr	Character
image	Character
fmonth	Integer
flabel	Integer
centry	Integer

---

cfmini	cfmini
--------	--------

---

**Description**

Initialize the C HLI.

**Usage**

```
cfmini(status)
```

**Arguments**

status	Integer
--------	---------

**Examples**

```
status <- Integer(-1L)
cfmini(status)
```

---

cfminwc	cfminwc
---------	---------

---

**Description**

Initialize a wildcard expansion.

**Usage**

```
cfminwc(status, dbkey, wilnam)
```

**Arguments**

status	Integer
dbkey	Integer
wilnam	Character

---

cfmisbm	cfmisbm
---------	---------

---

**Description**

See if a Boolean value is a missing value.

**Usage**

```
cfmisbm(status, value, ismiss)
```

**Arguments**

status	Integer
value	Integer
ismiss	Integer

---

cfmisdm	cfmisdm
---------	---------

---

**Description**

See if a date value is a missing value.

**Usage**

```
cfmisdm(status, value, ismiss)
```

**Arguments**

status	Integer
value	Integer
ismiss	Integer

---

<code>cfmislp</code>	<code>cfmislp</code>
----------------------	----------------------

---

**Description**

See if a year is a leap year.

**Usage**

```
cfmislp(status, year, leap)
```

**Arguments**

<code>status</code>	Integer
<code>year</code>	Integer
<code>leap</code>	Integer

---

<code>cfmisnm</code>	<code>cfmisnm</code>
----------------------	----------------------

---

**Description**

See if a numeric value is a missing value.

**Usage**

```
cfmisnm(status, value, ismiss)
```

**Arguments**

<code>status</code>	Integer
<code>value</code>	Numeric
<code>ismiss</code>	Integer

---

cfmisp	cfmisp
--------	--------

---

**Description**

See if a precision value is a missing value.

**Usage**

```
cfmisp(status, value, ismiss)
```

**Arguments**

status	Integer
value	Numeric
ismiss	Integer

---

cfmiss	cfmiss
--------	--------

---

**Description**

See if a string value is a missing value.

**Usage**

```
cfmiss(status, value, ismiss)
```

**Arguments**

status	Integer
value	Character
ismiss	Integer

---

cfmlali	cfmlali
---------	---------

---

**Description**

Get the length of an object's ALIAS attribute.

**Usage**

```
cfmlali(status, dbkey, objnam, alilen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
alilen	Integer

---

cfmlaso	cfmlaso
---------	---------

---

**Description**

Get the length of an object's ASSOCIATE attribute.

**Usage**

```
cfmlaso(status, dbkey, objnam, asolen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
asolen	Integer

---

cfmlatt	cfmlatt
---------	---------

---

**Description**

Get the length of a user-defined string or namelist attribute.

**Usage**

```
cfmlatt(status, dbkey, objnam, atttyp, attnam, attlen)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
attlen	Integer

---

cfmldat	cfmldat
---------	---------

---

**Description**

Convert a date literal string to a date.

**Usage**

```
cfmldat(status, freq, date, datstr, fmonth, flabel, centry)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
datstr	Character
fmonth	Integer
flabel	Integer
centry	Integer

---

cfmlerr	cfmlerr
---------	---------

---

**Description**

Get the length of the FAME error.

**Usage**

```
cfmlerr(status, len)
```

**Arguments**

status	Integer
len	Integer

---

cfmlsts	cfmlsts
---------	---------

---

**Description**

Get the lengths of a range of string values.

**Usage**

```
cfmlsts(status, dbkey, objnam, range, lenary)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
lenary	Integer vector

---

cfmncnt	cfmncnt
---------	---------

---

**Description**

Get the length of a namelist.

**Usage**

cfmncnt(status, dbkey, objnam, length)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
length	Integer

---

cfmnlcn	cfmnlcn
---------	---------

---

**Description**

Get the length of the buffer for reading a namelist.

**Usage**

cfmnlcn(status, dbkey, objnam, index, length)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
index	Integer
length	Integer

---

cfmnwob	cfmnwob
---------	---------

---

**Description**

Add a new object to a database.

**Usage**

cfmnwob(status, dbkey, objnam, class, freq, type, basis, observ)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
class	Integer
freq	Integer
type	Integer
basis	Integer
observ	Integer

---

cfmnoxwc	cfmnoxwc
----------	----------

---

**Description**

Get the next name matching a wildcard.

**Usage**

cfmnoxwc(status, dbkey, objnam, class, type, freq)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
class	Integer
type	Integer
freq	Integer

---

cfmopcn	cfmopcn
---------	---------

---

**Description**

Open a connection to a FAME Database Server.

**Usage**

cfmopcn(status, connkey, service, hostname, username, password)

**Arguments**

status	Integer
connkey	Integer
service	Character
hostname	Character
username	Character
password	Character

---

cfmopdb	cfmopdb
---------	---------

---

**Description**

Open a database.

**Usage**

cfmopdb(status, dbkey, dbname, mode)

**Arguments**

status	Integer
dbkey	Integer
dbname	Character
mode	Integer

---

cfmopdc	cfmopdc
---------	---------

---

**Description**

Open a database on a connection.

**Usage**

cfmopdc(status, dbkey, dbname, mode, connkey)

**Arguments**

status	Integer
dbkey	Integer
dbname	Character
mode	Integer
connkey	Integer

---

cfmoprc	cfmoprc
---------	---------

---

**Description**

Open an analytical channel on a connection.

**Usage**

cfmoprc(status, dbkey, connkey)

**Arguments**

status	Integer
dbkey	Integer
connkey	Integer

---

cfmopre	cfmopre
---------	---------

---

**Description**

Open an analytical channel to a server.

**Usage**

cfmopre(status, dbkey, sname)

**Arguments**

status	Integer
dbkey	Integer
sname	Character

---

cfmopwk	cfmopwk
---------	---------

---

**Description**

Open the FAME session WORK database.

**Usage**

cfmopwk(status, dbkey)

**Arguments**

status	Integer
dbkey	Integer

---

cfmosiz	cfmosiz
---------	---------

---

**Description**

Get the size of an object.

**Usage**

```
cfmosiz(status, dbkey, objnam, class, type, freq, fyear, fprd, lyear, lprd)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
class	Integer
type	Integer
freq	Integer
fyear	Integer
fprd	Integer
lyear	Integer
lprd	Integer

---

cfmpack	cfmpack
---------	---------

---

**Description**

Mark a database as packed.

**Usage**

```
cfmpack(status, dbkey)
```

**Arguments**

status	Integer
dbkey	Integer

---

cfmpdat	cfmpdat
---------	---------

---

**Description**

Convert a year and period to a date.

**Usage**

```
cfmpdat(status, freq, date, year, period)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
year	Integer
period	Integer

---

cfmpfrq	cfmpfrq
---------	---------

---

**Description**

Pack a frequency.

**Usage**

```
cfmpfrq(status, freq, base, nunits, year, month)
```

**Arguments**

status	Integer
freq	Integer
base	Integer
nunits	Integer
year	Integer
month	Integer

---

<code>cfmpind</code>	<code>cfmpind</code>
----------------------	----------------------

---

**Description**

Get the number of periods in a day.

**Usage**

```
cfmpind(status, freq, count)
```

**Arguments**

<code>status</code>	Integer
<code>freq</code>	Integer
<code>count</code>	Integer

---

<code>cfmpinm</code>	<code>cfmpinm</code>
----------------------	----------------------

---

**Description**

Get the number of periods in a month.

**Usage**

```
cfmpinm(status, freq, year, month, count)
```

**Arguments**

<code>status</code>	Integer
<code>freq</code>	Integer
<code>year</code>	Integer
<code>month</code>	Integer
<code>count</code>	Integer

---

cfmpiny	cfmpiny
---------	---------

---

**Description**

Get the number of periods in a year.

**Usage**

```
cfmpiny(status, freq, year, count)
```

**Arguments**

status	Integer
freq	Integer
year	Integer
count	Integer

---

cfmpodb	cfmpodb
---------	---------

---

**Description**

Post a database.

**Usage**

```
cfmpodb(status, dbkey)
```

**Arguments**

status	Integer
dbkey	Integer

---

cfmrdfa_double	cfmrdfa_double
----------------	----------------

---

**Description**

Read all of the Numeric data from an object.

**Usage**

```
cfmrdfa_double(status, dbkey, objnam, wntobs, syear, sprd, gotobs, valary,
               tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
wntobs	Integer
syear	Integer
sprd	Integer
gotobs	Integer
valary	Numeric vector
tmiss	Integer
mistt	Numeric vector

---

cfmrdfa_float	cfmrdfa_float
---------------	---------------

---

**Description**

Read all of the Numeric data from an object.

**Usage**

```
cfmrdfa_float(status, dbkey, objnam, wntobs, syear, sprd, gotobs, valary,
               tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
wntobs	Integer
syear	Integer
sprd	Integer
gotobs	Integer
valary	Numeric vector
tmiss	Integer
mistt	Numeric vector

---

cfmrdfa\_int

cfmrdfa\_int

---

**Description**

Read all of the Integer data from an object.

**Usage**

```
cfmrdfa_int(status, dbkey, objnam, wntobs, syear, sprd, gotobs, valary,
            tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
wntobs	Integer
syear	Integer
sprd	Integer
gotobs	Integer
valary	Integer vector
tmiss	Integer
mistt	Integer vector

---

cfmrdfm	cfmrdfm
---------	---------

---

**Description**

Read the source code for a formula from a database.

**Usage**

cfmrdfm(status, dbkey, objnam, source, ilen, olen)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
source	Character
ilen	Integer
olen	Integer

---

cfmrmev	cfmrmev
---------	---------

---

**Description**

Call on analytical channel to evaluate an expression.

**Usage**

cfmrmev(status, dbkey, expr, optns, wdbkey, objnam)

**Arguments**

status	Integer
dbkey	Integer
expr	Character
optns	Character
wdbkey	Integer
objnam	Character

---

cfmrrnob	cfmrrnob
----------	----------

---

**Description**

Rename an object.

**Usage**

```
cfmrrnob(status, dbkey, srcnam, tarnam)
```

**Arguments**

status	Integer
dbkey	Integer
srcnam	Character
tarnam	Character

---

cfmrrng_double	cfmrrng_double
----------------	----------------

---

**Description**

Read a range of Numeric data from an object.

**Usage**

```
cfmrrng_double(status, dbkey, objnam, range, valary, tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
valary	Numeric vector
tmiss	Integer
mistt	Numeric vector

---

cfmrrng_float	cfmrrng_float
---------------	---------------

---

**Description**

Read a range of Numeric data from an object.

**Usage**

```
cfmrrng_float(status, dbkey, objnam, range, valary, tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
valary	Numeric vector
tmiss	Integer
mistt	Numeric vector

---

cfmrrng_int	cfmrrng_int
-------------	-------------

---

**Description**

Read a range of Integer data from an object.

**Usage**

```
cfmrrng_int(status, dbkey, objnam, range, valary, tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
valary	Integer vector
tmiss	Integer
mistt	Integer vector

---

cfmrsdb	cfmrsdb
---------	---------

---

**Description**

Restore a database.

**Usage**

cfmrsdb(status, dbkey)

**Arguments**

status	Integer
dbkey	Integer

---

cfmsali	cfmsali
---------	---------

---

**Description**

Set an object's ALIAS attribute.

**Usage**

cfmsali(status, dbkey, objnam, aliass)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
aliass	Character

---

cfmsaso	cfmsaso
---------	---------

---

**Description**

Set an object's ASSOCIATE attribute.

**Usage**

```
cfmsaso(status, dbkey, objnam, assoc)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
assoc	Character

---

cfmsatt_char	cfmsatt_char
--------------	--------------

---

**Description**

Set the value of a user-defined Character attribute

**Usage**

```
cfmsatt_char(status, dbkey, objnam, atttyp, attnam, value)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
value	Character

---

cfmsatt_double	cfmsatt_double
----------------	----------------

---

**Description**

Set the value of a user-defined Numeric attribute

**Usage**

```
cfmsatt_double(status, dbkey, objnam, atttyp, attnam, value)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
value	Numeric

---

cfmsatt_float	cfmsatt_float
---------------	---------------

---

**Description**

Set the value of a user-defined Numeric attribute

**Usage**

```
cfmsatt_float(status, dbkey, objnam, atttyp, attnam, value)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
value	Numeric

---

cfmsatt_int	cfmsatt_int
-------------	-------------

---

**Description**

Set the value of a user-defined Integer attribute

**Usage**

cfmsatt\_int(status, dbkey, objnam, atttyp, attnam, value)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
atttyp	Integer
attnam	Character
value	Integer

---

cfmsbas	cfmsbas
---------	---------

---

**Description**

Set an object's BASIS attribute.

**Usage**

cfmsbas(status, dbkey, objnam, basis)

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
basis	Integer

---

cfmsbm	cfmsbm
--------	--------

---

**Description**

Set a boolean missing value translation table.

**Usage**

```
cfmsbm(status, nctran, ndtran, natran, bmistt)
```

**Arguments**

status	Integer
nctran	Integer
ndtran	Integer
natran	Integer
bmistt	Integer vector

---

cfmsdes	cfmsdes
---------	---------

---

**Description**

Set an object's DESCRIPTION attribute.

**Usage**

```
cfmsdes(status, dbkey, objnam, desc)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
desc	Character

---

cfmsdm	cfmsdm
--------	--------

---

**Description**

Set a date missing value translation table.

**Usage**

```
cfmsdm(status, nctran, ndtran, natran, dmistt)
```

**Arguments**

status	Integer
nctran	Integer
ndtran	Integer
natran	Integer
dmistt	Integer vector

---

cfmsdoc	cfmsdoc
---------	---------

---

**Description**

Set an object's DOCUMENTATION attribute.

**Usage**

```
cfmsdoc(status, dbkey, objnam, doc)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
doc	Character

---

cfmset_dimension	cfmset_dimension
------------------	------------------

---

**Description**

Set the dimension attribute for a database.

**Usage**

```
cfmset_dimension(status, dbkey, dimen)
```

**Arguments**

status	Integer
dbkey	Integer
dimen	Integer

---

cfmset_extradots	cfmset_extradots
------------------	------------------

---

**Description**

Set the extradots attribute for a database.

**Usage**

```
cfmset_extradots(status, dbkey, xdots)
```

**Arguments**

status	Integer
dbkey	Integer
xdots	Integer

---

cfmsfis	cfmsfis
---------	---------

---

**Description**

Set a fiscal range for reading or writing data.

**Usage**

```
cfmsfis(status, freq, year, sprd, eyear, eprd, range, numobs, fmonth,
        flabel)
```

**Arguments**

status	Integer
freq	Integer
year	Integer
sprd	Integer
eyear	Integer
eprd	Integer
range	Integer vector
numobs	Integer
fmonth	Integer
flabel	Integer

---

cfmsinp	cfmsinp
---------	---------

---

**Description**

Read the next FAME Server command.

**Usage**

```
cfmsinp(status, cmd)
```

**Arguments**

status	Integer
cmd	Character

---

cfmsnm	cfmsnm
--------	--------

---

**Description**

Set a numeric missing value translation table.

**Usage**

```
cfmsnm(status, nctran, ndtran, natran, nmistt)
```

**Arguments**

status	Integer
nctran	Numeric
ndtran	Numeric
natran	Numeric
nmistt	Numeric vector

---

cfmsobs	cfmsobs
---------	---------

---

**Description**

Set an object's OBSERVED attribute.

**Usage**

```
cfmsobs(status, dbkey, objnam, observ)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
observ	Integer

---

cfmsopt	cfmsopt
---------	---------

---

**Description**

Setting options in the C HLI.

**Usage**

cfmsopt(status, optnam, optval)

**Arguments**

status	Integer
optnam	Character
optval	Character

---

cfmspm	cfmspm
--------	--------

---

**Description**

Set a precision missing value translation table.

**Usage**

cfmspm(status, nctran, ndtran, natran, pmistt)

**Arguments**

status	Integer
nctran	Numeric
ndtran	Numeric
natran	Numeric
pmistt	Numeric vector

---

cfmspos	cfmspos
---------	---------

---

**Description**

Enable or disable the POST/RESTORE mechanism.

**Usage**

cfmspos(status, flag)

**Arguments**

status	Integer
flag	Integer

---

cfmsrng	cfmsrng
---------	---------

---

**Description**

Set a range for reading or writing data.

**Usage**

cfmsrng(status, freq, syear, sprd, eyear, eprd, range, numobs)

**Arguments**

status	Integer
freq	Integer
syear	Integer
sprd	Integer
eyear	Integer
eprd	Integer
range	Integer vector
numobs	Integer

---

cfmssl	cfmssl
--------	--------

---

**Description**

Set an object's STRINGLENGTH attribute.

**Usage**

```
cfmssl(status, dbkey, objnam, length)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
length	Integer

---

cfmtdat	cfmtdat
---------	---------

---

**Description**

Convert a daily date and time to an intraday date.

**Usage**

```
cfmtdat(status, freq, date, hour, minute, second, ddate)
```

**Arguments**

status	Integer
freq	Integer
date	Integer
hour	Integer
minute	Integer
second	Integer
ddate	Integer

---

cfmtody	cfmtody
---------	---------

---

**Description**

Get today's date.

**Usage**

```
cfmtody(status, freq, date)
```

**Arguments**

status	Integer
freq	Integer
date	Integer

---

cfmufrq	cfmufrq
---------	---------

---

**Description**

Unpack a frequency.

**Usage**

```
cfmufrq(status, freq, base, nunits, year, month)
```

**Arguments**

status	Integer
freq	Integer
base	Integer
nunits	Integer
year	Integer
month	Integer

---

cfmver	cfmver
--------	--------

---

**Description**

Get the C HLI version number.

**Usage**

```
cfmver(status, ver)
```

**Arguments**

status	Integer
ver	Numeric

**Examples**

```
status <- Integer(-1L)
ver <- Numeric(-1)
cfmver(status,ver)
cat(sprintf("CHLI version %.5f",ver$value))
```

---

cfmwhat	cfmwhat
---------	---------

---

**Description**

Get information about an object.

**Usage**

```
cfmwhat(status, dbkey, objnam, class, type, freq, basis, observ, fyear,
        fprd, lyear, lprd, cyear, cmonth, cday, myear, mmonth, mday, desc, doc)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
class	Integer
type	Integer
freq	Integer

basis	Integer
observ	Integer
fyear	Integer
fprd	Integer
lyear	Integer
lprd	Integer
cyear	Integer
cmonth	Integer
cday	Integer
myear	Integer
mmonth	Integer
mday	Integer
desc	Character
doc	Character

---

cfmwkdy

cfmwkdy

---

### **Description**

Get the weekday of a date.

### **Usage**

cfmwkdy(status, freq, date, wkdy)

### **Arguments**

status	Integer
freq	Integer
date	Integer
wkdy	Integer

---

cfmwrmt_double	cfmwrmt_double
----------------	----------------

---

**Description**

Write a range of Numeric data to a remote database.

**Usage**

```
cfmwrmt_double(status, dbkey, objnam, objtyp, range, valary, tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
objtyp	Integer
range	Integer vector
valary	Numeric vector
tmiss	Integer
mistt	Numeric vector

---

cfmwrmt_float	cfmwrmt_float
---------------	---------------

---

**Description**

Write a range of Numeric data to a remote database.

**Usage**

```
cfmwrmt_float(status, dbkey, objnam, objtyp, range, valary, tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
objtyp	Integer
range	Integer vector
valary	Numeric vector
tmiss	Integer
mistt	Numeric vector

---

cfmwrmt_int	cfmwrmt_int
-------------	-------------

---

### Description

Write a range of Integer data to a remote database.

### Usage

```
cfmwrmt_int(status, dbkey, objnam, objtyp, range, valary, tmiss, mistt)
```

### Arguments

status	Integer
dbkey	Integer
objnam	Character
objtyp	Integer
range	Integer vector
valary	Integer vector
tmiss	Integer
mistt	Integer vector

---

cfmwrng_double	cfmwrng_double
----------------	----------------

---

### Description

Write a range of Numeric data.

### Usage

```
cfmwrng_double(status, dbkey, objnam, range, valary, tmiss, mistt)
```

### Arguments

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
valary	Numeric vector
tmiss	Integer
mistt	Numeric vector

---

cfmwrng_float	cfmwrng_float
---------------	---------------

---

**Description**

Write a range of Numeric data.

**Usage**

```
cfmwrng_float(status, dbkey, objnam, range, valary, tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
valary	Numeric vector
tmiss	Integer
mistt	Numeric vector

---

cfmwrng_int	cfmwrng_int
-------------	-------------

---

**Description**

Write a range of Integer data.

**Usage**

```
cfmwrng_int(status, dbkey, objnam, range, valary, tmiss, mistt)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
valary	Integer vector
tmiss	Integer
mistt	Integer vector

---

cfmwstr	cfmwstr
---------	---------

---

**Description**

Write a single string value.

**Usage**

```
cfmwstr(status, dbkey, objnam, range, strval, ismiss, length)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
strval	Character
issmiss	Integer
length	Integer

---

cfmwsts	cfmwsts
---------	---------

---

**Description**

Write a range of string values.

**Usage**

```
cfmwsts(status, dbkey, objnam, range, strary, misary, lenary)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
range	Integer vector
strary	Character vector
misary	Integer vector
lenary	Integer vector

---

cfmwtnl	cfmwtnl
---------	---------

---

**Description**

Write an element of a namelist or a whole namelist.

**Usage**

```
cfmwtnl(status, dbkey, objnam, index, strval)
```

**Arguments**

status	Integer
dbkey	Integer
objnam	Character
index	Integer
strval	Character

---

Character-class	Character
-----------------	-----------

---

**Description**

A reference class to implement mutable character data.

**Fields**

value A character vector.

**Methods**

initialize(s = "") Initialize a character vector.

**Examples**

```
blankLine <- Character(sprintf("%80s",""))
```

---

fame\_biweekday      *C-HLI function fame\_biweekday*

---

**Description**

C-HLI function fame\_biweekday

**Usage**

fame\_biweekday(freq, date, biweekday)

**Arguments**

freq	Integer
date	Integer
biweekday	Integer

---

fame\_create\_formula      *C-HLI function fame\_create\_formula*

---

**Description**

C-HLI function fame\_create\_formula

**Usage**

fame\_create\_formula(dbkey, oname, value)

**Arguments**

dbkey	Integer
oname	Character
value	Character

---

fame\_create\_global\_formula  
*C-HLI function fame\_create\_global\_formula*

---

**Description**

C-HLI function fame\_create\_global\_formula

**Usage**

fame\_create\_global\_formula(dbkey, oname, value)

**Arguments**

dbkey	Integer
oname	Character
value	Character

---

fame\_current\_time      *C-HLI function fame\_current\_time*

---

**Description**

C-HLI function fame\_current\_time

**Usage**

fame\_current\_time(freq, date)

**Arguments**

freq	Integer
date	Integer

---

fame_dateof	<i>C-HLI function fame_dateof</i>
-------------	-----------------------------------

---

**Description**

C-HLI function fame\_dateof

**Usage**

fame\_dateof(from\_freq, from\_date, select, to\_freq, to\_date, relate)

**Arguments**

from_freq	Integer
from_date	Integer
select	Integer
to_freq	Integer
to_date	Integer
relate	Integer

---

fame_date_missing_type	<i>C-HLI function fame_date_missing_type</i>
------------------------	--

---

**Description**

C-HLI function fame\_date\_missing\_type

**Usage**

fame\_date\_missing\_type(date, missing\_type)

**Arguments**

date	Integer
missing_type	Integer

---

fame\_date\_to\_literal    *C-HLI function fame\_date\_to\_literal*

---

**Description**

C-HLI function fame\_date\_to\_literal

**Usage**

```
fame_date_to_literal(freq, date, literal, end_month, label_year, inlen,  
                    outlen)
```

**Arguments**

freq	Integer
date	Integer
literal	Character
end_month	Integer
label_year	Integer
inlen	Integer
outlen	Integer

---

fame\_day\_to\_index    *C-HLI function fame\_day\_to\_index*

---

**Description**

C-HLI function fame\_day\_to\_index

**Usage**

```
fame_day_to_index(freq, date, year, month, day, relate)
```

**Arguments**

freq	Integer
date	Integer
year	Integer
month	Integer
day	Integer
relate	Integer

---

fame\_dimchar            *C-HLI function fame\_dimchar*

---

**Description**

C-HLI function fame\_dimchar

**Usage**

fame\_dimchar(dimchar, dimnum)

**Arguments**

dimchar	Character
dimnum	Integer

---

fame\_dimnum            *C-HLI function fame\_dimnum*

---

**Description**

C-HLI function fame\_dimnum

**Usage**

fame\_dimnum(dimnum, dimchar)

**Arguments**

dimnum	Integer
dimchar	Character

---

fame\_expiration\_date    *C-HLI function fame\_expiration\_date*

---

**Description**

C-HLI function fame\_expiration\_date

**Usage**

fame\_expiration\_date(date)

**Arguments**

date	Integer
------	---------

---

fame\_format\_date      *C-HLI function fame\_format\_date*

---

**Description**

C-HLI function fame\_format\_date

**Usage**

```
fame_format_date(freq, date, string, image, end_month, label_year, inlen,  
outlen)
```

**Arguments**

freq	Integer
date	Integer
string	Character
image	Character
end_month	Integer
label_year	Integer
inlen	Integer
outlen	Integer

---

fame\_free\_wildcard      *C-HLI function fame\_free\_wildcard*

---

**Description**

C-HLI function fame\_free\_wildcard

**Usage**

```
fame_free_wildcard(wildkey)
```

**Arguments**

wildkey	Integer
---------	---------

---

fame\_get\_base\_frequency  
*C-HLI function fame\_get\_base\_frequency*

---

**Description**

C-HLI function fame\_get\_base\_frequency

**Usage**

fame\_get\_base\_frequency(base\_freq, freq)

**Arguments**

base_freq	Integer
freq	Integer

---

fame\_get\_booleans      *C-HLI function fame\_get\_booleans*

---

**Description**

C-HLI function fame\_get\_booleans

**Usage**

fame\_get\_booleans(dbkey, objnam, range, valary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
valary	Integer vector

---

fame\_get\_boolean\_attribute  
*C-HLI function fame\_get\_boolean\_attribute*

---

**Description**

C-HLI function fame\_get\_boolean\_attribute

**Usage**

fame\_get\_boolean\_attribute(dbkey, objnam, attnam, value)

**Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Integer

---

fame\_get\_dates            *C-HLI function fame\_get\_dates*

---

**Description**

C-HLI function fame\_get\_dates

**Usage**

fame\_get\_dates(dbkey, objnam, range, valary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
valary	Integer vector

---

fame\_get\_date\_attribute

*C-HLI function fame\_get\_date\_attribute*

---

### **Description**

C-HLI function fame\_get\_date\_attribute

### **Usage**

fame\_get\_date\_attribute(dbkey, objnam, attnam, value, freq)

### **Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Integer
freq	Integer

---

fame\_get\_dbversion

*C-HLI function fame\_get\_dbversion*

---

### **Description**

C-HLI function fame\_get\_dbversion

### **Usage**

fame\_get\_dbversion(dbkey, dbversion)

### **Arguments**

dbkey	Integer
dbversion	Integer

---

fame\_get\_db\_dates      *C-HLI function fame\_get\_db\_dates*

---

**Description**

C-HLI function fame\_get\_db\_dates

**Usage**

fame\_get\_db\_dates(dbkey, cdate, mdate)

**Arguments**

dbkey	Integer
cdate	Integer
mdate	Integer

---

fame\_get\_namelist\_attribute  
*C-HLI function fame\_get\_namelist\_attribute*

---

**Description**

C-HLI function fame\_get\_namelist\_attribute

**Usage**

fame\_get\_namelist\_attribute(dbkey, objnam, attnam, value, inlen, outlen)

**Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Character
inlen	Integer
outlen	Integer

---

fame\_get\_next\_wildcard

*C-HLI function fame\_get\_next\_wildcard*

---

### Description

C-HLI function fame\_get\_next\_wildcard

### Usage

```
fame_get_next_wildcard(wildkey, objname, obj_class, type, freq, start, end,
    inlen, outlen)
```

### Arguments

wildkey	Integer
objname	Character
obj_class	Integer
type	Integer
freq	Integer
start	Integer
end	Integer
inlen	Integer
outlen	Integer

---

fame\_get\_numerics

*C-HLI function fame\_get\_numerics*

---

### Description

C-HLI function fame\_get\_numerics

### Usage

```
fame_get_numerics(dbkey, objnam, range, valary)
```

### Arguments

dbkey	Integer
objnam	Character
range	Integer vector
valary	Numeric vector

---

fame\_get\_numeric\_attribute  
*C-HLI function fame\_get\_numeric\_attribute*

---

**Description**

C-HLI function fame\_get\_numeric\_attribute

**Usage**

fame\_get\_numeric\_attribute(dbkey, objnam, attnam, value)

**Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Numeric

---

fame\_get\_precisions *C-HLI function fame\_get\_precisions*

---

**Description**

C-HLI function fame\_get\_precisions

**Usage**

fame\_get\_precisions(dbkey, objnam, range, valary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
valary	Numeric vector

fame\_get\_precision\_attribute

*C-HLI function fame\_get\_precision\_attribute*

---

### **Description**

C-HLI function fame\_get\_precision\_attribute

### **Usage**

fame\_get\_precision\_attribute(dbkey, objnam, attnam, value)

### **Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Numeric

---

fame\_get\_range\_numobs *C-HLI function fame\_get\_range\_numobs*

---

### **Description**

C-HLI function fame\_get\_range\_numobs

### **Usage**

fame\_get\_range\_numobs(range, numobs)

### **Arguments**

range	Integer vector
numobs	Integer

---

fame\_get\_real\_name     *C-HLI function fame\_get\_real\_name*

---

**Description**

C-HLI function fame\_get\_real\_name

**Usage**

fame\_get\_real\_name(dbkey, objname, basename, inlen, outlen)

**Arguments**

dbkey	Integer
objname	Character
basename	Character
inlen	Integer
outlen	Integer

---

fame\_get\_server\_input     *C-HLI function fame\_get\_server\_input*

---

**Description**

C-HLI function fame\_get\_server\_input

**Usage**

fame\_get\_server\_input(buffer, buffer\_size, input\_size)

**Arguments**

buffer	Character
buffer_size	Integer
input_size	Integer

---

fame_get_strings	<i>C-HLI function fame_get_strings</i>
------------------	--

---

**Description**

C-HLI function fame\_get\_strings

**Usage**

fame\_get\_strings(dbkey, objnam, range, strary, inlenary, outlenary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
strary	Character vector
inlenary	Integer vector
outlenary	Integer vector

---

fame_get_string_attribute	<i>C-HLI function fame_get_string_attribute</i>
---------------------------	---

---

**Description**

C-HLI function fame\_get\_string\_attribute

**Usage**

fame\_get\_string\_attribute(dbkey, objnam, attnam, value, inlen, outlen)

**Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Character
inlen	Integer
outlen	Integer

---

fame\_index\_to\_day      *C-HLI function fame\_index\_to\_day*

---

**Description**

C-HLI function fame\_index\_to\_day

**Usage**

fame\_index\_to\_day(freq, date, year, month, day)

**Arguments**

freq	Integer
date	Integer
year	Integer
month	Integer
day	Integer

---

fame\_index\_to\_int      *C-HLI function fame\_index\_to\_int*

---

**Description**

C-HLI function fame\_index\_to\_int

**Usage**

fame\_index\_to\_int(indexes64ary, indexes32ary, numobs)

**Arguments**

indexes64ary	Integer vector
indexes32ary	Integer vector
numobs	Integer

---

fame\_index\_to\_time      *C-HLI function fame\_index\_to\_time*

---

### Description

C-HLI function fame\_index\_to\_time

### Usage

```
fame_index_to_time(freq, date, year, month, day, hour, minute, second,
    millisecond)
```

### Arguments

freq	Integer
date	Integer
year	Integer
month	Integer
day	Integer
hour	Integer
minute	Integer
second	Integer
millisecond	Integer

---

fame\_index\_to\_year\_period  
                                   *C-HLI function fame\_index\_to\_year\_period*

---

### Description

C-HLI function fame\_index\_to\_year\_period

### Usage

```
fame_index_to_year_period(freq, date, year, period)
```

### Arguments

freq	Integer
date	Integer
year	Integer
period	Integer

---

fame_info	<i>C-HLI function fame_info</i>
-----------	---------------------------------

---

**Description**

C-HLI function fame\_info

**Usage**

```
fame_info(dbkey, oname, oclass, type, freq, findex, lindex, basis, observ,  
          cdate, mdate, desc, indesclen, outdesclen, doc, indoclen, outdoclen)
```

**Arguments**

dbkey	Integer
oname	Character
oclass	Integer
type	Integer
freq	Integer
findex	Integer
lindex	Integer
basis	Integer
observ	Integer
cdate	Integer
mdate	Integer
desc	Character
indesclen	Integer
outdesclen	Integer
doc	Character
indoclen	Integer
outdoclen	Integer

---

fame\_init\_range\_from\_end\_numobs

*C-HLI function fame\_init\_range\_from\_end\_numobs*

---

### Description

C-HLI function fame\_init\_range\_from\_end\_numobs

### Usage

fame\_init\_range\_from\_end\_numobs(range, freq, end, numobs)

### Arguments

range	Integer vector
freq	Integer
end	Integer
numobs	Integer

---

fame\_init\_range\_from\_indexes

*C-HLI function fame\_init\_range\_from\_indexes*

---

### Description

C-HLI function fame\_init\_range\_from\_indexes

### Usage

fame\_init\_range\_from\_indexes(range, freq, start, end)

### Arguments

range	Integer vector
freq	Integer
start	Integer
end	Integer

---

fame\_init\_range\_from\_start\_numobs

*C-HLI function fame\_init\_range\_from\_start\_numobs*

---

### Description

C-HLI function fame\_init\_range\_from\_start\_numobs

### Usage

fame\_init\_range\_from\_start\_numobs(range, freq, start, numobs)

### Arguments

range	Integer vector
freq	Integer
start	Integer
numobs	Integer

---

fame\_init\_wildcard *C-HLI function fame\_init\_wildcard*

---

### Description

C-HLI function fame\_init\_wildcard

### Usage

fame\_init\_wildcard(dbkey, wildkey, wildname, wildonly, wildstart)

### Arguments

dbkey	Integer
wildkey	Integer
wildname	Character
wildonly	Integer
wildstart	Character

---

fame\_int\_to\_index      *C-HLI function fame\_int\_to\_index*

---

### Description

C-HLI function fame\_int\_to\_index

### Usage

fame\_int\_to\_index(indexes32, indexes64, numobs)

### Arguments

indexes32	Integer
indexes64	Integer
numobs	Integer

---

fame\_len\_strings      *C-HLI function fame\_len\_strings*

---

### Description

C-HLI function fame\_len\_strings

### Usage

fame\_len\_strings(dbkey, objnam, range, lenary)

### Arguments

dbkey	Integer
objnam	Character
range	Integer vector
lenary	Integer vector

---

fame\_literal\_to\_date *C-HLI function* fame\_literal\_to\_date

---

**Description**

C-HLI function fame\_literal\_to\_date

**Usage**

fame\_literal\_to\_date(freq, date, literal, end\_month, label\_year, century)

**Arguments**

freq	Integer
date	Integer
literal	Character
end_month	Integer
label_year	Integer
century	Integer

---

fame\_modify\_formula *C-HLI function* fame\_modify\_formula

---

**Description**

C-HLI function fame\_modify\_formula

**Usage**

fame\_modify\_formula(dbkey, oname, value)

**Arguments**

dbkey	Integer
oname	Character
value	Character

---

fame\_parse\_frequency    *C-HLI function fame\_parse\_frequency*

---

**Description**

C-HLI function fame\_parse\_frequency

**Usage**

fame\_parse\_frequency(freq, frequency\_spec)

**Arguments**

freq                    Integer  
frequency\_spec    Character

---

fame\_quick\_info            *C-HLI function fame\_quick\_info*

---

**Description**

C-HLI function fame\_quick\_info

**Usage**

fame\_quick\_info(dbkey, oname, oclass, type, freq, findex, lindex)

**Arguments**

dbkey                    Integer  
oname                    Character  
oclass                   Integer  
type                     Integer  
freq                     Integer  
findex                   Integer  
lindex                   Integer

---

fame\_remexec            *C-HLI function fame\_remexec*

---

**Description**

C-HLI function fame\_remexec

**Usage**

fame\_remexec(dbkey, command, wdbkey, objnam)

**Arguments**

dbkey	Integer
command	Character
wdbkey	Integer
objnam	Character

---

fame\_scan\_date            *C-HLI function fame\_scan\_date*

---

**Description**

C-HLI function fame\_scan\_date

**Usage**

fame\_scan\_date(freq, date, string, image, end\_month, label\_year, century)

**Arguments**

freq	Integer
date	Integer
string	Character
image	Character
end_month	Integer
label_year	Integer
century	Integer

fame\_set\_boolean\_attribute

*C-HLI function fame\_set\_boolean\_attribute*

---

### **Description**

C-HLI function fame\_set\_boolean\_attribute

### **Usage**

fame\_set\_boolean\_attribute(dbkey, objnam, attnam, value)

### **Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Integer

---

fame\_set\_date\_attribute

*C-HLI function fame\_set\_date\_attribute*

---

### **Description**

C-HLI function fame\_set\_date\_attribute

### **Usage**

fame\_set\_date\_attribute(dbkey, objnam, attnam, value, freq)

### **Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Integer
freq	Integer

---

fame\_set\_namelist\_attribute  
*C-HLI function fame\_set\_namelist\_attribute*

---

**Description**

C-HLI function fame\_set\_namelist\_attribute

**Usage**

fame\_set\_namelist\_attribute(dbkey, objnam, attnam, value)

**Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Character

---

fame\_set\_numeric\_attribute  
*C-HLI function fame\_set\_numeric\_attribute*

---

**Description**

C-HLI function fame\_set\_numeric\_attribute

**Usage**

fame\_set\_numeric\_attribute(dbkey, objnam, attnam, value)

**Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Numeric

---

fame\_set\_precision\_attribute

*C-HLI function fame\_set\_precision\_attribute*

---

**Description**

C-HLI function fame\_set\_precision\_attribute

**Usage**

fame\_set\_precision\_attribute(dbkey, objnam, attnam, value)

**Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Numeric

---

fame\_set\_string\_attribute

*C-HLI function fame\_set\_string\_attribute*

---

**Description**

C-HLI function fame\_set\_string\_attribute

**Usage**

fame\_set\_string\_attribute(dbkey, objnam, attnam, value)

**Arguments**

dbkey	Integer
objnam	Character
attnam	Character
value	Character

---

fame\_time\_to\_index     *C-HLI function fame\_time\_to\_index*

---

**Description**

C-HLI function fame\_time\_to\_index

**Usage**

```
fame_time_to_index(freq, date, year, month, day, hour, minute, second,  
                  millisecond, relate)
```

**Arguments**

freq	Integer
date	Integer
year	Integer
month	Integer
day	Integer
hour	Integer
minute	Integer
second	Integer
millisecond	Integer
relate	Integer

---

fame\_type\_to\_string     *C-HLI function fame\_type\_to\_string*

---

**Description**

C-HLI function fame\_type\_to\_string

**Usage**

```
fame_type_to_string(type, type_spec, inlen, outlen)
```

**Arguments**

type	Integer
type_spec	Character
inlen	Integer
outlen	Integer

---

fame_weekday	<i>C-HLI function fame_weekday</i>
--------------	------------------------------------

---

**Description**

C-HLI function fame\_weekday

**Usage**

fame\_weekday(freq, date, weekday)

**Arguments**

freq	Integer
date	Integer
weekday	Integer

---

fame_write_booleans	<i>C-HLI function fame_write_booleans</i>
---------------------	---

---

**Description**

C-HLI function fame\_write\_booleans

**Usage**

fame\_write\_booleans(dbkey, objnam, range, valary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
valary	Integer vector

---

fame\_write\_dates      *C-HLI function fame\_write\_dates*

---

**Description**

C-HLI function fame\_write\_dates

**Usage**

fame\_write\_dates(dbkey, objnam, range, value\_type, valary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
value_type	Integer
valary	Integer vector

---

fame\_write\_numerics      *C-HLI function fame\_write\_numerics*

---

**Description**

C-HLI function fame\_write\_numerics

**Usage**

fame\_write\_numerics(dbkey, objnam, range, valary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
valary	Numeric vector

---

fame\_write\_precisions *C-HLI function* fame\_write\_precisions

---

**Description**

C-HLI function fame\_write\_precisions

**Usage**

fame\_write\_precisions(dbkey, objnam, range, valary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
valary	Numeric vector

---

fame\_write\_strings *C-HLI function* fame\_write\_strings

---

**Description**

C-HLI function fame\_write\_strings

**Usage**

fame\_write\_strings(dbkey, objnam, range, strary)

**Arguments**

dbkey	Integer
objnam	Character
range	Integer vector
strary	Character vector

---

fame\_year\_period\_to\_index

*C-HLI function fame\_year\_period\_to\_index*

---

### Description

C-HLI function fame\_year\_period\_to\_index

### Usage

fame\_year\_period\_to\_index(freq, date, year, period)

### Arguments

freq            Integer

date            Integer

year            Integer

period          Integer

---

HABORT

*C-HLI constant HABORT*

---

### Description

C-HLI constant HABORT

### Usage

HABORT

### Format

An object of class integer of length 1.

---

HAFRI	<i>C-HLI constant</i> HAFRI
-------	-----------------------------

---

**Description**

C-HLI constant HAFRI

**Usage**

HAFRI

**Format**

An object of class integer of length 1.

---

HAFTER	<i>C-HLI constant</i> HAFTER
--------	------------------------------

---

**Description**

C-HLI constant HAFTER

**Usage**

HAFTER

**Format**

An object of class integer of length 1.

---

HALL	<i>C-HLI constant</i> HALL
------	----------------------------

---

**Description**

C-HLI constant HALL

**Usage**

HALL

**Format**

An object of class integer of length 1.

---

HAMON	<i>C-HLI constant</i> HAMON
-------	-----------------------------

---

**Description**

C-HLI constant HAMON

**Usage**

HAMON

**Format**

An object of class integer of length 1.

---

HANAPR	<i>C-HLI constant</i> HANAPR
--------	------------------------------

---

**Description**

C-HLI constant HANAPR

**Usage**

HANAPR

**Format**

An object of class integer of length 1.

---

HANAUG	<i>C-HLI constant</i> HANAUG
--------	------------------------------

---

**Description**

C-HLI constant HANAUG

**Usage**

HANAUG

**Format**

An object of class integer of length 1.

---

HANDEC	<i>C-HLI constant</i> HANDEC
--------	------------------------------

---

**Description**

C-HLI constant HANDEC

**Usage**

HANDEC

**Format**

An object of class integer of length 1.

---

HANFEB	<i>C-HLI constant</i> HANFEB
--------	------------------------------

---

**Description**

C-HLI constant HANFEB

**Usage**

HANFEB

**Format**

An object of class integer of length 1.

---

HANJAN	<i>C-HLI constant</i> HANJAN
--------	------------------------------

---

**Description**

C-HLI constant HANJAN

**Usage**

HANJAN

**Format**

An object of class integer of length 1.

---

HANJUL	<i>C-HLI constant</i> HANJUL
--------	------------------------------

---

**Description**

C-HLI constant HANJUL

**Usage**

HANJUL

**Format**

An object of class integer of length 1.

---

HANJUN	<i>C-HLI constant</i> HANJUN
--------	------------------------------

---

**Description**

C-HLI constant HANJUN

**Usage**

HANJUN

**Format**

An object of class integer of length 1.

---

HANMAR	<i>C-HLI constant</i> HANMAR
--------	------------------------------

---

**Description**

C-HLI constant HANMAR

**Usage**

HANMAR

**Format**

An object of class integer of length 1.

---

HANMAY	<i>C-HLI constant</i> HANMAY
--------	------------------------------

---

**Description**

C-HLI constant HANMAY

**Usage**

HANMAY

**Format**

An object of class integer of length 1.

---

HANNOV	<i>C-HLI constant</i> HANNOV
--------	------------------------------

---

**Description**

C-HLI constant HANNOV

**Usage**

HANNOV

**Format**

An object of class integer of length 1.

---

HANOCT	<i>C-HLI constant</i> HANOCT
--------	------------------------------

---

**Description**

C-HLI constant HANOCT

**Usage**

HANOCT

**Format**

An object of class integer of length 1.

---

HANSEP	<i>C-HLI constant</i> HANSEP
--------	------------------------------

---

**Description**

C-HLI constant HANSEP

**Usage**

HANSEP

**Format**

An object of class integer of length 1.

---

HAPOST	<i>C-HLI constant</i> HAPOST
--------	------------------------------

---

**Description**

C-HLI constant HAPOST

**Usage**

HAPOST

**Format**

An object of class integer of length 1.

---

HAPPY	<i>C-HLI constant</i> HAPPY
-------	-----------------------------

---

**Description**

C-HLI constant HAPPY

**Usage**

HAPPY

**Format**

An object of class integer of length 1.

---

HAPR	<i>C-HLI constant</i> HAPR
------	----------------------------

---

**Description**

C-HLI constant HAPR

**Usage**

HAPR

**Format**

An object of class integer of length 1.

---

HASAT	<i>C-HLI constant</i> HASAT
-------	-----------------------------

---

**Description**

C-HLI constant HASAT

**Usage**

HASAT

**Format**

An object of class integer of length 1.

---

HASUN	<i>C-HLI constant</i> HASUN
-------	-----------------------------

---

**Description**

C-HLI constant HASUN

**Usage**

HASUN

**Format**

An object of class integer of length 1.

---

HATHU	<i>C-HLI constant</i> HATHU
-------	-----------------------------

---

**Description**

C-HLI constant HATHU

**Usage**

HATHU

**Format**

An object of class integer of length 1.

---

HATUE	<i>C-HLI constant</i> HATUE
-------	-----------------------------

---

**Description**

C-HLI constant HATUE

**Usage**

HATUE

**Format**

An object of class integer of length 1.

---

HAUG	<i>C-HLI constant</i> HAUG
------	----------------------------

---

**Description**

C-HLI constant HAUG

**Usage**

HAUG

**Format**

An object of class integer of length 1.

---

HAWED	<i>C-HLI constant HAWED</i>
-------	-----------------------------

---

**Description**

C-HLI constant HAWED

**Usage**

HAWED

**Format**

An object of class integer of length 1.

---

HAYPP	<i>C-HLI constant HAYPP</i>
-------	-----------------------------

---

**Description**

C-HLI constant HAYPP

**Usage**

HAYPP

**Format**

An object of class integer of length 1.

---

HBADVAL	<i>C-HLI constant HBADVAL</i>
---------	-------------------------------

---

**Description**

C-HLI constant HBADVAL

**Usage**

HBADVAL

**Format**

An object of class integer of length 1.

---

HBASRT	<i>C-HLI constant</i> HBASRT
--------	------------------------------

---

**Description**

C-HLI constant HBASRT

**Usage**

HBASRT

**Format**

An object of class integer of length 1.

---

HBATTR	<i>C-HLI constant</i> HBATTR
--------	------------------------------

---

**Description**

C-HLI constant HBATTR

**Usage**

HBATTR

**Format**

An object of class integer of length 1.

---

HBATYP	<i>C-HLI constant</i> HBATYP
--------	------------------------------

---

**Description**

C-HLI constant HBATYP

**Usage**

HBATYP

**Format**

An object of class integer of length 1.

---

HBBASI	<i>C-HLI constant</i> HBBASI
--------	------------------------------

---

**Description**

C-HLI constant HBBASI

**Usage**

HBBASI

**Format**

An object of class integer of length 1.

---

HBCLAS	<i>C-HLI constant</i> HBCLAS
--------	------------------------------

---

**Description**

C-HLI constant HBCLAS

**Usage**

HBCLAS

**Format**

An object of class integer of length 1.

---

HBCNTX	<i>C-HLI constant</i> HBCNTX
--------	------------------------------

---

**Description**

C-HLI constant HBCNTX

**Usage**

HBCNTX

**Format**

An object of class integer of length 1.

---

HBCONN	<i>C-HLI constant</i> HBCONN
--------	------------------------------

---

**Description**

C-HLI constant HBCONN

**Usage**

HBCONN

**Format**

An object of class integer of length 1.

---

HBCPU	<i>C-HLI constant</i> HBCPU
-------	-----------------------------

---

**Description**

C-HLI constant HBCPU

**Usage**

HBCPU

**Format**

An object of class integer of length 1.

---

HBDATE	<i>C-HLI constant</i> HBDATE
--------	------------------------------

---

**Description**

C-HLI constant HBDATE

**Usage**

HBDATE

**Format**

An object of class integer of length 1.

HBDAY *C-HLI constant* HBDAY

---

**Description**

C-HLI constant HBDAY

**Usage**

HBDAY

**Format**

An object of class integer of length 1.

---

HBEFOR *C-HLI constant* HBEFOR

---

**Description**

C-HLI constant HBEFOR

**Usage**

HBEFOR

**Format**

An object of class integer of length 1.

---

HBEGIN *C-HLI constant* HBEGIN

---

**Description**

C-HLI constant HBEGIN

**Usage**

HBEGIN

**Format**

An object of class integer of length 1.

---

HBERNG	<i>C-HLI constant</i> HBERNG
--------	------------------------------

---

**Description**

C-HLI constant HBERNG

**Usage**

HBERNG

**Format**

An object of class integer of length 1.

---

HBFILE	<i>C-HLI constant</i> HBFILE
--------	------------------------------

---

**Description**

C-HLI constant HBFILE

**Usage**

HBFILE

**Format**

An object of class integer of length 1.

---

HBFLAB	<i>C-HLI constant</i> HBFLAB
--------	------------------------------

---

**Description**

C-HLI constant HBFLAB

**Usage**

HBFLAB

**Format**

An object of class integer of length 1.

---

HBFLAG	<i>C-HLI constant</i> HBFLAG
--------	------------------------------

---

**Description**

C-HLI constant HBFLAG

**Usage**

HBFLAG

**Format**

An object of class integer of length 1.

---

HBFMON	<i>C-HLI constant</i> HBFMON
--------	------------------------------

---

**Description**

C-HLI constant HBFMON

**Usage**

HBFMON

**Format**

An object of class integer of length 1.

---

HBFREQ	<i>C-HLI constant</i> HBFREQ
--------	------------------------------

---

**Description**

C-HLI constant HBFREQ

**Usage**

HBFREQ

**Format**

An object of class integer of length 1.

HBFRI *C-HLI constant* HBFRI

**Description**

C-HLI constant HBFRI

**Usage**

HBFRI

**Format**

An object of class integer of length 1.

HBFUNC *C-HLI constant* HBFUNC

**Description**

C-HLI constant HBFUNC

**Usage**

HBFUNC

**Format**

An object of class integer of length 1.

HBGLNM *C-HLI constant* HBGLNM

**Description**

C-HLI constant HBGLNM

**Usage**

HBGLNM

**Format**

An object of class integer of length 1.

---

HBGROW	<i>C-HLI constant</i> HBGROW
--------	------------------------------

---

**Description**

C-HLI constant HBGROW

**Usage**

HBGROW

**Format**

An object of class integer of length 1.

---

HBGRP	<i>C-HLI constant</i> HBGRP
-------	-----------------------------

---

**Description**

C-HLI constant HBGRP

**Usage**

HBGRP

**Format**

An object of class integer of length 1.

---

HBIMON	<i>C-HLI constant</i> HBIMON
--------	------------------------------

---

**Description**

C-HLI constant HBIMON

**Usage**

HBIMON

**Format**

An object of class integer of length 1.

---

HBINDEX	<i>C-HLI constant</i> HBINDEX
---------	-------------------------------

---

**Description**

C-HLI constant HBINDEX

**Usage**

HBINDEX

**Format**

An object of class integer of length 1.

---

HBKEY	<i>C-HLI constant</i> HBKEY
-------	-----------------------------

---

**Description**

C-HLI constant HBKEY

**Usage**

HBKEY

**Format**

An object of class integer of length 1.

---

HBLEN	<i>C-HLI constant</i> HBLEN
-------	-----------------------------

---

**Description**

C-HLI constant HBLEN

**Usage**

HBLEN

**Format**

An object of class integer of length 1.

---

HBMISS	<i>C-HLI constant</i> HBMISS
--------	------------------------------

---

**Description**

C-HLI constant HBMISS

**Usage**

HBMISS

**Format**

An object of class integer of length 1.

---

HBMNOV	<i>C-HLI constant</i> HBMNOV
--------	------------------------------

---

**Description**

C-HLI constant HBMNOV

**Usage**

HBMNOV

**Format**

An object of class integer of length 1.

---

HBMODE	<i>C-HLI constant</i> HBMODE
--------	------------------------------

---

**Description**

C-HLI constant HBMODE

**Usage**

HBMODE

**Format**

An object of class integer of length 1.

---

HBMON	<i>C-HLI constant</i> HBMON
-------	-----------------------------

---

**Description**

C-HLI constant HBMON

**Usage**

HBMON

**Format**

An object of class integer of length 1.

---

HBMONT	<i>C-HLI constant</i> HBMONT
--------	------------------------------

---

**Description**

C-HLI constant HBMONT

**Usage**

HBMONT

**Format**

An object of class integer of length 1.

---

HBNCHR	<i>C-HLI constant</i> HBNCHR
--------	------------------------------

---

**Description**

C-HLI constant HBNCHR

**Usage**

HBNCHR

**Format**

An object of class integer of length 1.

---

HBNRNG	<i>C-HLI constant HBNRNG</i>
--------	------------------------------

---

**Description**

C-HLI constant HBNRNG

**Usage**

HBNRNG

**Format**

An object of class integer of length 1.

---

HBOBJT	<i>C-HLI constant HBOBJT</i>
--------	------------------------------

---

**Description**

C-HLI constant HBOBJT

**Usage**

HBOBJT

**Format**

An object of class integer of length 1.

---

HBOBSV	<i>C-HLI constant HBOBSV</i>
--------	------------------------------

---

**Description**

C-HLI constant HBOBSV

**Usage**

HBOBSV

**Format**

An object of class integer of length 1.

---

HBOOLN	<i>C-HLI constant</i> HBOOLN
--------	------------------------------

---

**Description**

C-HLI constant HBOOLN

**Usage**

HBOOLN

**Format**

An object of class integer of length 1.

---

HBOPT	<i>C-HLI constant</i> HBOPT
-------	-----------------------------

---

**Description**

C-HLI constant HBOPT

**Usage**

HBOPT

**Format**

An object of class integer of length 1.

---

HBOPTV	<i>C-HLI constant</i> HBOPTV
--------	------------------------------

---

**Description**

C-HLI constant HBOPTV

**Usage**

HBOPTV

**Format**

An object of class integer of length 1.

---

HBPER	<i>C-HLI constant</i> HBPER
-------	-----------------------------

---

**Description**

C-HLI constant HBPER

**Usage**

HBPER

**Format**

An object of class integer of length 1.

---

HBPHAS	<i>C-HLI constant</i> HBPHAS
--------	------------------------------

---

**Description**

C-HLI constant HBPHAS

**Usage**

HBPHAS

**Format**

An object of class integer of length 1.

---

HBPROD	<i>C-HLI constant</i> HBPROD
--------	------------------------------

---

**Description**

C-HLI constant HBPROD

**Usage**

HBPROD

**Format**

An object of class integer of length 1.

---

HBPRSP	<i>C-HLI constant</i> HBPRSP
--------	------------------------------

---

**Description**

C-HLI constant HBPRSP

**Usage**

HBPRSP

**Format**

An object of class integer of length 1.

---

HBREL	<i>C-HLI constant</i> HBREL
-------	-----------------------------

---

**Description**

C-HLI constant HBREL

**Usage**

HBREL

**Format**

An object of class integer of length 1.

---

HBRNG	<i>C-HLI constant</i> HBRNG
-------	-----------------------------

---

**Description**

C-HLI constant HBRNG

**Usage**

HBRNG

**Format**

An object of class integer of length 1.

HBSAT *C-HLI constant* HBSAT

---

**Description**

C-HLI constant HBSAT

**Usage**

HBSAT

**Format**

An object of class integer of length 1.

---

HBSBUS *C-HLI constant* HBSBUS

---

**Description**

C-HLI constant HBSBUS

**Usage**

HBSBUS

**Format**

An object of class integer of length 1.

---

HBSDAY *C-HLI constant* HBSDAY

---

**Description**

C-HLI constant HBSDAY

**Usage**

HBSDAY

**Format**

An object of class integer of length 1.

---

HBSEL	<i>C-HLI constant</i> HBSEL
-------	-----------------------------

---

**Description**

C-HLI constant HBSEL

**Usage**

HBSEL

**Format**

An object of class integer of length 1.

---

HBSRNG	<i>C-HLI constant</i> HBSRNG
--------	------------------------------

---

**Description**

C-HLI constant HBSRNG

**Usage**

HBSRNG

**Format**

An object of class integer of length 1.

---

HBSRVR	<i>C-HLI constant</i> HBSRVR
--------	------------------------------

---

**Description**

C-HLI constant HBSRVR

**Usage**

HBSRVR

**Format**

An object of class integer of length 1.

---

HBSUN	<i>C-HLI constant</i> HBSUN
-------	-----------------------------

---

**Description**

C-HLI constant HBSUN

**Usage**

HBSUN

**Format**

An object of class integer of length 1.

---

HBSUND	<i>C-HLI constant</i> HBSUND
--------	------------------------------

---

**Description**

C-HLI constant HBSUND

**Usage**

HBSUND

**Format**

An object of class integer of length 1.

---

HBTHU	<i>C-HLI constant</i> HBTHU
-------	-----------------------------

---

**Description**

C-HLI constant HBTHU

**Usage**

HBTHU

**Format**

An object of class integer of length 1.

---

HBTIME	<i>C-HLI constant</i> HBTIME
--------	------------------------------

---

**Description**

C-HLI constant HBTIME

**Usage**

HBTIME

**Format**

An object of class integer of length 1.

---

HBTUE	<i>C-HLI constant</i> HBTUE
-------	-----------------------------

---

**Description**

C-HLI constant HBTUE

**Usage**

HBTUE

**Format**

An object of class integer of length 1.

---

HBTYP	<i>C-HLI constant</i> HBTYP
-------	-----------------------------

---

**Description**

C-HLI constant HBTYP

**Usage**

HBTYP

**Format**

An object of class integer of length 1.

HBUNIT *C-HLI constant* HBUNIT

---

**Description**

C-HLI constant HBUNIT

**Usage**

HBUNIT

**Format**

An object of class integer of length 1.

---

HBUSER *C-HLI constant* HBUSER

---

**Description**

C-HLI constant HBUSER

**Usage**

HBUSER

**Format**

An object of class integer of length 1.

---

HBUSNS *C-HLI constant* HBUSNS

---

**Description**

C-HLI constant HBUSNS

**Usage**

HBUSNS

**Format**

An object of class integer of length 1.

---

HBV3DATE	<i>C-HLI constant</i> HBV3DATE
----------	--------------------------------

---

**Description**

C-HLI constant HBV3DATE

**Usage**

HBV3DATE

**Format**

An object of class integer of length 1.

---

HBV3RANGE	<i>C-HLI constant</i> HBV3RANGE
-----------	---------------------------------

---

**Description**

C-HLI constant HBV3RANGE

**Usage**

HBV3RANGE

**Format**

An object of class integer of length 1.

---

HBV3TYPE	<i>C-HLI constant</i> HBV3TYPE
----------	--------------------------------

---

**Description**

C-HLI constant HBV3TYPE

**Usage**

HBV3TYPE

**Format**

An object of class integer of length 1.

---

HBVER	<i>C-HLI constant</i> HBVER
-------	-----------------------------

---

**Description**

C-HLI constant HBVER

**Usage**

HBVER

**Format**

An object of class integer of length 1.

---

HBWED	<i>C-HLI constant</i> HBWED
-------	-----------------------------

---

**Description**

C-HLI constant HBWED

**Usage**

HBWED

**Format**

An object of class integer of length 1.

---

HBYEAR	<i>C-HLI constant</i> HBYEAR
--------	------------------------------

---

**Description**

C-HLI constant HBYEAR

**Usage**

HBYEAR

**Format**

An object of class integer of length 1.

---

HCASEX	<i>C-HLI constant</i> HCASEX
--------	------------------------------

---

**Description**

C-HLI constant HCASEX

**Usage**

HCASEX

**Format**

An object of class integer of length 1.

---

HCEXI	<i>C-HLI constant</i> HCEXI
-------	-----------------------------

---

**Description**

C-HLI constant HCEXI

**Usage**

HCEXI

**Format**

An object of class integer of length 1.

---

HCHANL	<i>C-HLI constant</i> HCHANL
--------	------------------------------

---

**Description**

C-HLI constant HCHANL

**Usage**

HCHANL

**Format**

An object of class integer of length 1.

---

HCHGAC	<i>C-HLI constant</i> HCHGAC
--------	------------------------------

---

**Description**

C-HLI constant HCHGAC

**Usage**

HCHGAC

**Format**

An object of class integer of length 1.

---

HCLCHN	<i>C-HLI constant</i> HCLCHN
--------	------------------------------

---

**Description**

C-HLI constant HCLCHN

**Usage**

HCLCHN

**Format**

An object of class integer of length 1.

---

HCLNLM	<i>C-HLI constant</i> HCLNLM
--------	------------------------------

---

**Description**

C-HLI constant HCLNLM

**Usage**

HCLNLM

**Format**

An object of class integer of length 1.

---

HCLNT	<i>C-HLI constant</i> HCLNT
-------	-----------------------------

---

**Description**

C-HLI constant HCLNT

**Usage**

HCLNT

**Format**

An object of class integer of length 1.

---

HCMODE	<i>C-HLI constant</i> HCMODE
--------	------------------------------

---

**Description**

C-HLI constant HCMODE

**Usage**

HCMODE

**Format**

An object of class integer of length 1.

---

HCONT	<i>C-HLI constant</i> HCONT
-------	-----------------------------

---

**Description**

C-HLI constant HCONT

**Usage**

HCONT

**Format**

An object of class integer of length 1.

HCVTDB                      *C-HLI constant* HCVTDB

---

**Description**

C-HLI constant HCVTDB

**Usage**

HCVTDB

**Format**

An object of class integer of length 1.

---

HDAILY                      *C-HLI constant* HDAILY

---

**Description**

C-HLI constant HDAILY

**Usage**

HDAILY

**Format**

An object of class integer of length 1.

---

HDATE                      *C-HLI constant* HDATE

---

**Description**

C-HLI constant HDATE

**Usage**

HDATE

**Format**

An object of class integer of length 1.

---

HDBCLM	<i>C-HLI constant</i> HDBCLM
--------	------------------------------

---

**Description**

C-HLI constant HDBCLM

**Usage**

HDBCLM

**Format**

An object of class integer of length 1.

---

HDEC	<i>C-HLI constant</i> HDEC
------	----------------------------

---

**Description**

C-HLI constant HDEC

**Usage**

HDEC

**Format**

An object of class integer of length 1.

---

HDHOST	<i>C-HLI constant</i> HDHOST
--------	------------------------------

---

**Description**

C-HLI constant HDHOST

**Usage**

HDHOST

**Format**

An object of class integer of length 1.

---

HDMODE	<i>C-HLI constant</i> HDMODE
--------	------------------------------

---

**Description**

C-HLI constant HDMODE

**Usage**

HDMODE

**Format**

An object of class integer of length 1.

---

HDPRMC	<i>C-HLI constant</i> HDPRMC
--------	------------------------------

---

**Description**

C-HLI constant HDPRMC

**Usage**

HDPRMC

**Format**

An object of class integer of length 1.

---

HDUP	<i>C-HLI constant</i> HDUP
------	----------------------------

---

**Description**

C-HLI constant HDUP

**Usage**

HDUP

**Format**

An object of class integer of length 1.

---

HDUTAR	<i>C-HLI constant</i> HDUTAR
--------	------------------------------

---

**Description**

C-HLI constant HDUTAR

**Usage**

HDUTAR

**Format**

An object of class integer of length 1.

---

HEND	<i>C-HLI constant</i> HEND
------	----------------------------

---

**Description**

C-HLI constant HEND

**Usage**

HEND

**Format**

An object of class integer of length 1.

---

HEXPIR	<i>C-HLI constant</i> HEXPIR
--------	------------------------------

---

**Description**

C-HLI constant HEXPIR

**Usage**

HEXPIR

**Format**

An object of class integer of length 1.

---

HFAMER	<i>C-HLI constant HFAMER</i>
--------	------------------------------

---

**Description**

C-HLI constant HFAMER

**Usage**

HFAMER

**Format**

An object of class integer of length 1.

---

HFEB	<i>C-HLI constant HFEB</i>
------	----------------------------

---

**Description**

C-HLI constant HFEB

**Usage**

HFEB

**Format**

An object of class integer of length 1.

---

HFIN	<i>C-HLI constant HFIN</i>
------	----------------------------

---

**Description**

C-HLI constant HFIN

**Usage**

HFIN

**Format**

An object of class integer of length 1.

---

HFMENTV	<i>C-HLI constant HFMENTV</i>
---------	-------------------------------

---

**Description**

C-HLI constant HFMENTV

**Usage**

HFMENTV

**Format**

An object of class integer of length 1.

---

HFRI	<i>C-HLI constant HFRI</i>
------	----------------------------

---

**Description**

C-HLI constant HFRI

**Usage**

HFRI

**Format**

An object of class integer of length 1.

---

HFRLA	<i>C-HLI constant HFRLA</i>
-------	-----------------------------

---

**Description**

C-HLI constant HFRLA

**Usage**

HFRLA

**Format**

An object of class integer of length 1.

---

HFMSYNTAXERR	<i>C-HLI constant</i> HFMSYNTAXERR
--------------	------------------------------------

---

**Description**

C-HLI constant HFMSYNTAXERR

**Usage**

HFMSYNTAXERR

**Format**

An object of class integer of length 1.

---

HFTOUT	<i>C-HLI constant</i> HFTOUT
--------	------------------------------

---

**Description**

C-HLI constant HFTOUT

**Usage**

HFTOUT

**Format**

An object of class integer of length 1.

---

HFUSE	<i>C-HLI constant</i> HFUSE
-------	-----------------------------

---

**Description**

C-HLI constant HFUSE

**Usage**

HFUSE

**Format**

An object of class integer of length 1.

---

HFUTURE_TYPE	<i>C-HLI constant</i> HFUTURE_TYPE
--------------	------------------------------------

---

**Description**

C-HLI constant HFUTURE\_TYPE

**Usage**

HFUTURE\_TYPE

**Format**

An object of class integer of length 1.

---

HFYAPR	<i>C-HLI constant</i> HFYAPR
--------	------------------------------

---

**Description**

C-HLI constant HFYAPR

**Usage**

HFYAPR

**Format**

An object of class integer of length 1.

---

HFYAUG	<i>C-HLI constant</i> HFYAUG
--------	------------------------------

---

**Description**

C-HLI constant HFYAUG

**Usage**

HFYAUG

**Format**

An object of class integer of length 1.

---

HFYAUT	<i>C-HLI constant</i> HFYAUT
--------	------------------------------

---

**Description**

C-HLI constant HFYAUT

**Usage**

HFYAUT

**Format**

An object of class integer of length 1.

---

HFYDEC	<i>C-HLI constant</i> HFYDEC
--------	------------------------------

---

**Description**

C-HLI constant HFYDEC

**Usage**

HFYDEC

**Format**

An object of class integer of length 1.

---

HFYFEB	<i>C-HLI constant</i> HFYFEB
--------	------------------------------

---

**Description**

C-HLI constant HFYFEB

**Usage**

HFYFEB

**Format**

An object of class integer of length 1.

---

HFYFST	<i>C-HLI constant</i> HFYFST
--------	------------------------------

---

**Description**

C-HLI constant HFYFST

**Usage**

HFYFST

**Format**

An object of class integer of length 1.

---

HFYJAN	<i>C-HLI constant</i> HFYJAN
--------	------------------------------

---

**Description**

C-HLI constant HFYJAN

**Usage**

HFYJAN

**Format**

An object of class integer of length 1.

---

HFYJUL	<i>C-HLI constant</i> HFYJUL
--------	------------------------------

---

**Description**

C-HLI constant HFYJUL

**Usage**

HFYJUL

**Format**

An object of class integer of length 1.

HFYJUN                      *C-HLI constant* HFYJUN

---

**Description**

C-HLI constant HFYJUN

**Usage**

HFYJUN

**Format**

An object of class integer of length 1.

---

HFYLST                      *C-HLI constant* HFYLST

---

**Description**

C-HLI constant HFYLST

**Usage**

HFYLST

**Format**

An object of class integer of length 1.

---

HFYMAR                      *C-HLI constant* HFYMAR

---

**Description**

C-HLI constant HFYMAR

**Usage**

HFYMAR

**Format**

An object of class integer of length 1.

---

HFYMAY	<i>C-HLI constant HFYMAY</i>
--------	------------------------------

---

**Description**

C-HLI constant HFYMAY

**Usage**

HFYMAY

**Format**

An object of class integer of length 1.

---

HFYNOV	<i>C-HLI constant HFYNOV</i>
--------	------------------------------

---

**Description**

C-HLI constant HFYNOV

**Usage**

HFYNOV

**Format**

An object of class integer of length 1.

---

HFYOCT	<i>C-HLI constant HFYOCT</i>
--------	------------------------------

---

**Description**

C-HLI constant HFYOCT

**Usage**

HFYOCT

**Format**

An object of class integer of length 1.

---

HFYSEP	<i>C-HLI constant</i> HFYSEP
--------	------------------------------

---

**Description**

C-HLI constant HFYSEP

**Usage**

HFYSEP

**Format**

An object of class integer of length 1.

---

HGLFOR	<i>C-HLI constant</i> HGLFOR
--------	------------------------------

---

**Description**

C-HLI constant HGLFOR

**Usage**

HGLFOR

**Format**

An object of class integer of length 1.

---

HGLNAM	<i>C-HLI constant</i> HGLNAM
--------	------------------------------

---

**Description**

C-HLI constant HGLNAM

**Usage**

HGLNAM

**Format**

An object of class integer of length 1.

---

HHOUR	<i>C-HLI constant</i> HHOUR
-------	-----------------------------

---

**Description**

C-HLI constant HHOUR

**Usage**

HHOUR

**Format**

An object of class integer of length 1.

---

HIFAIL	<i>C-HLI constant</i> HIFAIL
--------	------------------------------

---

**Description**

C-HLI constant HIFAIL

**Usage**

HIFAIL

**Format**

An object of class integer of length 1.

---

HINITD	<i>C-HLI constant</i> HINITD
--------	------------------------------

---

**Description**

C-HLI constant HINITD

**Usage**

HINITD

**Format**

An object of class integer of length 1.

---

HINTVL	<i>C-HLI constant</i> HINTVL
--------	------------------------------

---

**Description**

C-HLI constant HINTVL

**Usage**

HINTVL

**Format**

An object of class integer of length 1.

---

HINUSE	<i>C-HLI constant</i> HINUSE
--------	------------------------------

---

**Description**

C-HLI constant HINUSE

**Usage**

HINUSE

**Format**

An object of class integer of length 1.

---

HJAN	<i>C-HLI constant</i> HJAN
------	----------------------------

---

**Description**

C-HLI constant HJAN

**Usage**

HJAN

**Format**

An object of class integer of length 1.

---

HJUL	<i>C-HLI constant HJUL</i>
------	----------------------------

---

**Description**

C-HLI constant HJUL

**Usage**

HJUL

**Format**

An object of class integer of length 1.

---

HJUN	<i>C-HLI constant HJUN</i>
------	----------------------------

---

**Description**

C-HLI constant HJUN

**Usage**

HJUN

**Format**

An object of class integer of length 1.

---

HLICFL	<i>C-HLI constant HLICFL</i>
--------	------------------------------

---

**Description**

C-HLI constant HLICFL

**Usage**

HLICFL

**Format**

An object of class integer of length 1.

---

HLICNS	<i>C-HLI constant</i> HLICNS
--------	------------------------------

---

**Description**

C-HLI constant HLICNS

**Usage**

HLICNS

**Format**

An object of class integer of length 1.

---

HLI_MAX_FAME_CMD	<i>C-HLI constant</i> HLI_MAX_FAME_CMD
------------------	--

---

**Description**

C-HLI constant HLI\_MAX\_FAME\_CMD

**Usage**

HLI\_MAX\_FAME\_CMD

**Format**

An object of class integer of length 1.

---

HLI_MAX_FAME_INPUT	<i>C-HLI constant</i> HLI_MAX_FAME_INPUT
--------------------	--

---

**Description**

C-HLI constant HLI\_MAX\_FAME\_INPUT

**Usage**

HLI\_MAX\_FAME\_INPUT

**Format**

An object of class integer of length 1.

---

HLI\_MAX\_FAME\_INPUT\_SIZE

*C-HLI constant* HLI\_MAX\_FAME\_INPUT\_SIZE

---

**Description**

C-HLI constant HLI\_MAX\_FAME\_INPUT\_SIZE

**Usage**

HLI\_MAX\_FAME\_INPUT\_SIZE

**Format**

An object of class integer of length 1.

---

HLI\_MAX\_STR\_LEN

*C-HLI constant* HLI\_MAX\_STR\_LEN

---

**Description**

C-HLI constant HLI\_MAX\_STR\_LEN

**Usage**

HLI\_MAX\_STR\_LEN

**Format**

An object of class integer of length 1.

---

HLOCKD

*C-HLI constant* HLOCKD

---

**Description**

C-HLI constant HLOCKD

**Usage**

HLOCKD

**Format**

An object of class integer of length 1.

---

HLRESV	<i>C-HLI constant</i> HLRESV
--------	------------------------------

---

**Description**

C-HLI constant HLRESV

**Usage**

HLRESV

**Format**

An object of class integer of length 1.

---

HLSERV	<i>C-HLI constant</i> HLSERV
--------	------------------------------

---

**Description**

C-HLI constant HLSERV

**Usage**

HLSERV

**Format**

An object of class integer of length 1.

---

HMAR	<i>C-HLI constant</i> HMAR
------	----------------------------

---

**Description**

C-HLI constant HMAR

**Usage**

HMAR

**Format**

An object of class integer of length 1.

---

HMAXDB	<i>C-HLI constant</i> HMAXDB
--------	------------------------------

---

**Description**

C-HLI constant HMAXDB

**Usage**

HMAXDB

**Format**

An object of class integer of length 1.

---

HMAXSCMD	<i>C-HLI constant</i> HMAXSCMD
----------	--------------------------------

---

**Description**

C-HLI constant HMAXSCMD

**Usage**

HMAXSCMD

**Format**

An object of class integer of length 1.

---

HMAY	<i>C-HLI constant</i> HMAY
------	----------------------------

---

**Description**

C-HLI constant HMAY

**Usage**

HMAY

**Format**

An object of class integer of length 1.

---

HMFIL	<i>C-HLI constant</i> HMFIL
-------	-----------------------------

---

**Description**

C-HLI constant HMFIL

**Usage**

HMFIL

**Format**

An object of class integer of length 1.

---

HMGVAL	<i>C-HLI constant</i> HMGVAL
--------	------------------------------

---

**Description**

C-HLI constant HMGVAL

**Usage**

HMGVAL

**Format**

An object of class integer of length 1.

---

HMIN	<i>C-HLI constant</i> HMIN
------	----------------------------

---

**Description**

C-HLI constant HMIN

**Usage**

HMIN

**Format**

An object of class integer of length 1.

---

HMON	<i>C-HLI constant</i> HMON
------	----------------------------

---

**Description**

C-HLI constant HMON

**Usage**

HMON

**Format**

An object of class integer of length 1.

---

HMONTH	<i>C-HLI constant</i> HMONTH
--------	------------------------------

---

**Description**

C-HLI constant HMONTH

**Usage**

HMONTH

**Format**

An object of class integer of length 1.

---

HMPOST	<i>C-HLI constant</i> HMPOST
--------	------------------------------

---

**Description**

C-HLI constant HMPOST

**Usage**

HMPOST

**Format**

An object of class integer of length 1.

HMSEC *C-HLI constant* HMSEC

---

**Description**

C-HLI constant HMSEC

**Usage**

HMSEC

**Format**

An object of class integer of length 1.

---

HNAMEL *C-HLI constant* HNAMEL

---

**Description**

C-HLI constant HNAMEL

**Usage**

HNAMEL

**Format**

An object of class integer of length 1.

---

HNAMLEN *C-HLI constant* HNAMLEN

---

**Description**

C-HLI constant HNAMLEN

**Usage**

HNAMLEN

**Format**

An object of class integer of length 1.

---

HNAMLEN_V3	<i>C-HLI constant HNAMLEN_V3</i>
------------	----------------------------------

---

**Description**

C-HLI constant HNAMLEN\_V3

**Usage**

HNAMLEN\_V3

**Format**

An object of class integer of length 1.

---

HNAMLEN_V4	<i>C-HLI constant HNAMLEN_V4</i>
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---

**Description**

C-HLI constant HNAMLEN\_V4

**Usage**

HNAMLEN\_V4

**Format**

An object of class integer of length 1.

---

HNAMSIZ	<i>C-HLI constant HNAMSIZ</i>
---------	-------------------------------

---

**Description**

C-HLI constant HNAMSIZ

**Usage**

HNAMSIZ

**Format**

An object of class integer of length 1.

---

HNAVAL	<i>C-HLI constant</i> HNAVAL
--------	------------------------------

---

**Description**

C-HLI constant HNAVAL

**Usage**

HNAVAL

**Format**

An object of class integer of length 1.

---

HNBACK	<i>C-HLI constant</i> HNBACK
--------	------------------------------

---

**Description**

C-HLI constant HNBACK

**Usage**

HNBACK

**Format**

An object of class integer of length 1.

---

HNCONN	<i>C-HLI constant</i> HNCONN
--------	------------------------------

---

**Description**

C-HLI constant HNCONN

**Usage**

HNCONN

**Format**

An object of class integer of length 1.

---

HNCVAL	<i>C-HLI constant</i> HNCVAL
--------	------------------------------

---

**Description**

C-HLI constant HNCVAL

**Usage**

HNCVAL

**Format**

An object of class integer of length 1.

---

HNDVAL	<i>C-HLI constant</i> HNDVAL
--------	------------------------------

---

**Description**

C-HLI constant HNDVAL

**Usage**

HNDVAL

**Format**

An object of class integer of length 1.

---

HNEMPT	<i>C-HLI constant</i> HNEMPT
--------	------------------------------

---

**Description**

C-HLI constant HNEMPT

**Usage**

HNEMPT

**Format**

An object of class integer of length 1.

---

HNETCN	<i>C-HLI constant</i> HNETCN
--------	------------------------------

---

**Description**

C-HLI constant HNETCN

**Usage**

HNETCN

**Format**

An object of class integer of length 1.

---

HNFAME	<i>C-HLI constant</i> HNFAME
--------	------------------------------

---

**Description**

C-HLI constant HNFAME

**Usage**

HNFAME

**Format**

An object of class integer of length 1.

---

HNFILE	<i>C-HLI constant</i> HNFILE
--------	------------------------------

---

**Description**

C-HLI constant HNFILE

**Usage**

HNFILE

**Format**

An object of class integer of length 1.

---

HNFMDB	<i>C-HLI constant</i> HNFMDB
--------	------------------------------

---

**Description**

C-HLI constant HNFMDB

**Usage**

HNFMDB

**Format**

An object of class integer of length 1.

---

HNFSRCLONG	<i>C-HLI constant</i> HNFSRCLONG
------------	----------------------------------

---

**Description**

C-HLI constant HNFSRCLONG

**Usage**

HNFSRCLONG

**Format**

An object of class integer of length 1.

---

HNINIT	<i>C-HLI constant</i> HNINIT
--------	------------------------------

---

**Description**

C-HLI constant HNINIT

**Usage**

HNINIT

**Format**

An object of class integer of length 1.

HNLALL                      *C-HLI constant* HNLALL

---

**Description**

C-HLI constant HNLALL

**Usage**

HNLALL

**Format**

An object of class integer of length 1.

---

HNLOCL                      *C-HLI constant* HNLOCL

---

**Description**

C-HLI constant HNLOCL

**Usage**

HNLOCL

**Format**

An object of class integer of length 1.

---

HNMCA                      *C-HLI constant* HNMCA

---

**Description**

C-HLI constant HNMCA

**Usage**

HNMCA

**Format**

An object of class integer of length 1.

---

HNMVAl	<i>C-HLI constant</i> HNMVAl
--------	------------------------------

---

**Description**

C-HLI constant HNMVAl

**Usage**

HNMVAl

**Format**

An object of class integer of length 1.

---

HNO	<i>C-HLI constant</i> HNO
-----	---------------------------

---

**Description**

C-HLI constant HNO

**Usage**

HNO

**Format**

An object of class integer of length 1.

---

HNOFORMV3	<i>C-HLI constant</i> HNOFORMV3
-----------	---------------------------------

---

**Description**

C-HLI constant HNOFORMV3

**Usage**

HNOFORMV3

**Format**

An object of class integer of length 1.

HNOMAP                      *C-HLI constant* HNOMAP

---

**Description**

C-HLI constant HNOMAP

**Usage**

HNOMAP

**Format**

An object of class integer of length 1.

---

HNOMEM                      *C-HLI constant* HNOMEM

---

**Description**

C-HLI constant HNOMEM

**Usage**

HNOMEM

**Format**

An object of class integer of length 1.

---

HNOOBJ                      *C-HLI constant* HNOOBJ

---

**Description**

C-HLI constant HNOOBJ

**Usage**

HNOOBJ

**Format**

An object of class integer of length 1.

---

HNOV	<i>C-HLI constant</i> HNOV
------	----------------------------

---

**Description**

C-HLI constant HNOV

**Usage**

HNOV

**Format**

An object of class integer of length 1.

---

HNPOST	<i>C-HLI constant</i> HNPOST
--------	------------------------------

---

**Description**

C-HLI constant HNPOST

**Usage**

HNPOST

**Format**

An object of class integer of length 1.

---

HNRESW	<i>C-HLI constant</i> HNRESW
--------	------------------------------

---

**Description**

C-HLI constant HNRESW

**Usage**

HNRESW

**Format**

An object of class integer of length 1.

---

HNSUPDB	<i>C-HLI constant</i> HNSUPDB
---------	-------------------------------

---

**Description**

C-HLI constant HNSUPDB

**Usage**

HNSUPDB

**Format**

An object of class integer of length 1.

---

HNSUPP	<i>C-HLI constant</i> HNSUPP
--------	------------------------------

---

**Description**

C-HLI constant HNSUPP

**Usage**

HNSUPP

**Format**

An object of class integer of length 1.

---

HNTMIS	<i>C-HLI constant</i> HNTMIS
--------	------------------------------

---

**Description**

C-HLI constant HNTMIS

**Usage**

HNTMIS

**Format**

An object of class integer of length 1.

---

HNTOOLONG	<i>C-HLI constant</i> HNTOOLONG
-----------	---------------------------------

---

**Description**

C-HLI constant HNTOOLONG

**Usage**

HNTOOLONG

**Format**

An object of class integer of length 1.

---

HNTSAFE	<i>C-HLI constant</i> HNTSAFE
---------	-------------------------------

---

**Description**

C-HLI constant HNTSAFE

**Usage**

HNTSAFE

**Format**

An object of class integer of length 1.

---

HNTWIC	<i>C-HLI constant</i> HNTWIC
--------	------------------------------

---

**Description**

C-HLI constant HNTWIC

**Usage**

HNTWIC

**Format**

An object of class integer of length 1.

---

HNUFRD	<i>C-HLI constant</i> HNUFRD
--------	------------------------------

---

**Description**

C-HLI constant HNUFRD

**Usage**

HNUFRD

**Format**

An object of class integer of length 1.

---

HNULLP	<i>C-HLI constant</i> HNULLP
--------	------------------------------

---

**Description**

C-HLI constant HNULLP

**Usage**

HNULLP

**Format**

An object of class integer of length 1.

---

HNUMRC	<i>C-HLI constant</i> HNUMRC
--------	------------------------------

---

**Description**

C-HLI constant HNUMRC

**Usage**

HNUMRC

**Format**

An object of class integer of length 1.

---

HNWFEEA	<i>C-HLI constant</i> HNWFEEA
---------	-------------------------------

---

**Description**

C-HLI constant HNWFEEA

**Usage**

HNWFEEA

**Format**

An object of class integer of length 1.

---

HNWILD	<i>C-HLI constant</i> HNWILD
--------	------------------------------

---

**Description**

C-HLI constant HNWILD

**Usage**

HNWILD

**Format**

An object of class integer of length 1.

---

HOBANN	<i>C-HLI constant</i> HOBANN
--------	------------------------------

---

**Description**

C-HLI constant HOBANN

**Usage**

HOBANN

**Format**

An object of class integer of length 1.

---

HOBAVG	<i>C-HLI constant</i> HOBAVG
--------	------------------------------

---

**Description**

C-HLI constant HOBAVG

**Usage**

HOBAVG

**Format**

An object of class integer of length 1.

---

HOBEG	<i>C-HLI constant</i> HOBEG
-------	-----------------------------

---

**Description**

C-HLI constant HOBEG

**Usage**

HOBEG

**Format**

An object of class integer of length 1.

---

HOBEND	<i>C-HLI constant</i> HOBEND
--------	------------------------------

---

**Description**

C-HLI constant HOBEND

**Usage**

HOBEND

**Format**

An object of class integer of length 1.

---

HOBFRM	<i>C-HLI constant</i> HOBFRM
--------	------------------------------

---

**Description**

C-HLI constant HOBFRM

**Usage**

HOBFRM

**Format**

An object of class integer of length 1.

---

HOBHI	<i>C-HLI constant</i> HOBHI
-------	-----------------------------

---

**Description**

C-HLI constant HOBHI

**Usage**

HOBHI

**Format**

An object of class integer of length 1.

---

HOBJSIZE	<i>C-HLI constant</i> HOBJSIZE
----------	--------------------------------

---

**Description**

C-HLI constant HOBJSIZE

**Usage**

HOBJSIZE

**Format**

An object of class integer of length 1.

---

HOBLO	<i>C-HLI constant</i> HOBLO
-------	-----------------------------

---

**Description**

C-HLI constant HOBLO

**Usage**

HOBLO

**Format**

An object of class integer of length 1.

---

HOBSFUNC	<i>C-HLI constant</i> HOBSFUNC
----------	--------------------------------

---

**Description**

C-HLI constant HOBSFUNC

**Usage**

HOBSFUNC

**Format**

An object of class integer of length 1.

---

HOBSUM	<i>C-HLI constant</i> HOBSUM
--------	------------------------------

---

**Description**

C-HLI constant HOBSUM

**Usage**

HOBSUM

**Format**

An object of class integer of length 1.

---

HOBUND	<i>C-HLI constant</i> HOBUND
--------	------------------------------

---

**Description**

C-HLI constant HOBUND

**Usage**

HOBUND

**Format**

An object of class integer of length 1.

---

HOCT	<i>C-HLI constant</i> HOCT
------	----------------------------

---

**Description**

C-HLI constant HOCT

**Usage**

HOCT

**Format**

An object of class integer of length 1.

---

HOEXI	<i>C-HLI constant</i> HOEXI
-------	-----------------------------

---

**Description**

C-HLI constant HOEXI

**Usage**

HOEXI

**Format**

An object of class integer of length 1.

---

HOLDDB	<i>C-HLI constant</i> HOLDDB
--------	------------------------------

---

**Description**

C-HLI constant HOLDDB

**Usage**

HOLDDB

**Format**

An object of class integer of length 1.

---

HOMODE	<i>C-HLI constant</i> HOMODE
--------	------------------------------

---

**Description**

C-HLI constant HOMODE

**Usage**

HOMODE

**Format**

An object of class integer of length 1.

---

HOPEND	<i>C-HLI constant</i> HOPEND
--------	------------------------------

---

**Description**

C-HLI constant HOPEND

**Usage**

HOPEND

**Format**

An object of class integer of length 1.

---

HOPENW	<i>C-HLI constant</i> HOPENW
--------	------------------------------

---

**Description**

C-HLI constant HOPENW

**Usage**

HOPENW

**Format**

An object of class integer of length 1.

---

HP1REQ	<i>C-HLI constant</i> HP1REQ
--------	------------------------------

---

**Description**

C-HLI constant HP1REQ

**Usage**

HP1REQ

**Format**

An object of class integer of length 1.

---

HP2REQ	<i>C-HLI constant</i> HP2REQ
--------	------------------------------

---

**Description**

C-HLI constant HP2REQ

**Usage**

HP2REQ

**Format**

An object of class integer of length 1.

---

HPACK	<i>C-HLI constant</i> HPACK
-------	-----------------------------

---

**Description**

C-HLI constant HPACK

**Usage**

HPACK

**Format**

An object of class integer of length 1.

---

HPRECN	<i>C-HLI constant</i> HPRECN
--------	------------------------------

---

**Description**

C-HLI constant HPRECN

**Usage**

HPRECN

**Format**

An object of class integer of length 1.

---

HPWWOU	<i>C-HLI constant</i> HPWWOU
--------	------------------------------

---

**Description**

C-HLI constant HPWWOU

**Usage**

HPWWOU

**Format**

An object of class integer of length 1.

---

HQTDEC	<i>C-HLI constant</i> HQTDEC
--------	------------------------------

---

**Description**

C-HLI constant HQTDEC

**Usage**

HQTDEC

**Format**

An object of class integer of length 1.

---

HQTN OV	<i>C-HLI constant</i> HQTN OV
---------	-------------------------------

---

**Description**

C-HLI constant HQTN OV

**Usage**

HQTN OV

**Format**

An object of class integer of length 1.

---

HQTOCT	<i>C-HLI constant</i> HQTOCT
--------	------------------------------

---

**Description**

C-HLI constant HQTOCT

**Usage**

HQTOCT

**Format**

An object of class integer of length 1.

HQUOTA                      *C-HLI constant* HQUOTA

---

**Description**

C-HLI constant HQUOTA

**Usage**

HQUOTA

**Format**

An object of class integer of length 1.

---

HRDISTRANS                      *C-HLI constant* HRDISTRANS

---

**Description**

C-HLI constant HRDISTRANS

**Usage**

HRDISTRANS

**Format**

An object of class integer of length 1.

---

HREAD                              *C-HLI constant* HREAD

---

**Description**

C-HLI constant HREAD

**Usage**

HREAD

**Format**

An object of class integer of length 1.

---

HREADO	<i>C-HLI constant</i> HREADO
--------	------------------------------

---

**Description**

C-HLI constant HREADO

**Usage**

HREADO

**Format**

An object of class integer of length 1.

---

HREMSUP	<i>C-HLI constant</i> HREMSUP
---------	-------------------------------

---

**Description**

C-HLI constant HREMSUP

**Usage**

HREMSUP

**Format**

An object of class integer of length 1.

---

HRESFD	<i>C-HLI constant</i> HRESFD
--------	------------------------------

---

**Description**

C-HLI constant HRESFD

**Usage**

HRESFD

**Format**

An object of class integer of length 1.

HRHANDINV                      *C-HLI constant* HRHANDINV

---

**Description**

C-HLI constant HRHANDINV

**Usage**

HRHANDINV

**Format**

An object of class integer of length 1.

---

HRKEYINV                      *C-HLI constant* HRKEYINV

---

**Description**

C-HLI constant HRKEYINV

**Usage**

HRKEYINV

**Format**

An object of class integer of length 1.

---

HRMKEY                      *C-HLI constant* HRMKEY

---

**Description**

C-HLI constant HRMKEY

**Usage**

HRMKEY

**Format**

An object of class integer of length 1.

---

HRMODE	<i>C-HLI constant</i> HRMODE
--------	------------------------------

---

**Description**

C-HLI constant HRMODE

**Usage**

HRMODE

**Format**

An object of class integer of length 1.

---

HRMTDB	<i>C-HLI constant</i> HRMTDB
--------	------------------------------

---

**Description**

C-HLI constant HRMTDB

**Usage**

HRMTDB

**Format**

An object of class integer of length 1.

---

HRNEXI	<i>C-HLI constant</i> HRNEXI
--------	------------------------------

---

**Description**

C-HLI constant HRNEXI

**Usage**

HRNEXI

**Format**

An object of class integer of length 1.

---

HROSCONN	<i>C-HLI constant</i> HROSCONN
----------	--------------------------------

---

**Description**

C-HLI constant HROSCONN

**Usage**

HROSCONN

**Format**

An object of class integer of length 1.

---

HROSTRANS	<i>C-HLI constant</i> HROSTRANS
-----------	---------------------------------

---

**Description**

C-HLI constant HROSTRANS

**Usage**

HROSTRANS

**Format**

An object of class integer of length 1.

---

HRUSERINV	<i>C-HLI constant</i> HRUSERINV
-----------	---------------------------------

---

**Description**

C-HLI constant HRUSERINV

**Usage**

HRUSERINV

**Format**

An object of class integer of length 1.

---

HSAT	<i>C-HLI constant HSAT</i>
------	----------------------------

---

**Description**

C-HLI constant HSAT

**Usage**

HSAT

**Format**

An object of class integer of length 1.

---

HSCALA	<i>C-HLI constant HSCALA</i>
--------	------------------------------

---

**Description**

C-HLI constant HSCALA

**Usage**

HSCALA

**Format**

An object of class integer of length 1.

---

HSCLLM	<i>C-HLI constant HSCLLM</i>
--------	------------------------------

---

**Description**

C-HLI constant HSCLLM

**Usage**

HSCLLM

**Format**

An object of class integer of length 1.

---

HSEC	<i>C-HLI constant</i> HSEC
------	----------------------------

---

**Description**

C-HLI constant HSEC

**Usage**

HSEC

**Format**

An object of class integer of length 1.

---

HSEP	<i>C-HLI constant</i> HSEP
------	----------------------------

---

**Description**

C-HLI constant HSEP

**Usage**

HSEP

**Format**

An object of class integer of length 1.

---

HSERIE	<i>C-HLI constant</i> HSERIE
--------	------------------------------

---

**Description**

C-HLI constant HSERIE

**Usage**

HSERIE

**Format**

An object of class integer of length 1.

---

HSERVR	<i>C-HLI constant</i> HSERVR
--------	------------------------------

---

**Description**

C-HLI constant HSERVR

**Usage**

HSERVR

**Format**

An object of class integer of length 1.

---

HMAUG	<i>C-HLI constant</i> HMAUG
-------	-----------------------------

---

**Description**

C-HLI constant HMAUG

**Usage**

HMAUG

**Format**

An object of class integer of length 1.

---

HSMDEC	<i>C-HLI constant</i> HSMDEC
--------	------------------------------

---

**Description**

C-HLI constant HSMDEC

**Usage**

HSMDEC

**Format**

An object of class integer of length 1.

---

HSMFIL	<i>C-HLI constant</i> HSMFIL
--------	------------------------------

---

**Description**

C-HLI constant HSMFIL

**Usage**

HSMFIL

**Format**

An object of class integer of length 1.

---

HSMJUL	<i>C-HLI constant</i> HSMJUL
--------	------------------------------

---

**Description**

C-HLI constant HSMJUL

**Usage**

HSMJUL

**Format**

An object of class integer of length 1.

---

HSMLLEN	<i>C-HLI constant</i> HSMLLEN
---------	-------------------------------

---

**Description**

C-HLI constant HSMLLEN

**Usage**

HSMLLEN

**Format**

An object of class integer of length 1.

---

HSMNOV	<i>C-HLI constant</i> HSMNOV
--------	------------------------------

---

**Description**

C-HLI constant HSMNOV

**Usage**

HSMNOV

**Format**

An object of class integer of length 1.

---

HSMOCT	<i>C-HLI constant</i> HSMOCT
--------	------------------------------

---

**Description**

C-HLI constant HSMOCT

**Usage**

HSMOCT

**Format**

An object of class integer of length 1.

---

HSMODE	<i>C-HLI constant</i> HSMODE
--------	------------------------------

---

**Description**

C-HLI constant HSMODE

**Usage**

HSMODE

**Format**

An object of class integer of length 1.

---

HSMSEP	<i>C-HLI constant</i> HSMSEP
--------	------------------------------

---

**Description**

C-HLI constant HSMSEP

**Usage**

HSMSEP

**Format**

An object of class integer of length 1.

---

HSNFIL	<i>C-HLI constant</i> HSNFIL
--------	------------------------------

---

**Description**

C-HLI constant HSNFIL

**Usage**

HSNFIL

**Format**

An object of class integer of length 1.

---

HSPCDB	<i>C-HLI constant</i> HSPCDB
--------	------------------------------

---

**Description**

C-HLI constant HSPCDB

**Usage**

HSPCDB

**Format**

An object of class integer of length 1.

---

HSRVST	<i>C-HLI constant</i> HSRVST
--------	------------------------------

---

**Description**

C-HLI constant HSRVST

**Usage**

HSRVST

**Format**

An object of class integer of length 1.

---

HSTRNG	<i>C-HLI constant</i> HSTRNG
--------	------------------------------

---

**Description**

C-HLI constant HSTRNG

**Usage**

HSTRNG

**Format**

An object of class integer of length 1.

---

HSUCC	<i>C-HLI constant</i> HSUCC
-------	-----------------------------

---

**Description**

C-HLI constant HSUCC

**Usage**

HSUCC

**Format**

An object of class integer of length 1.

**Examples**

```

status <- Integer(-1L)
cfmini(status)
if(status$value!=HSUCC){
  cat(sprintf("cfmini(status=%d)",status$value))
}

```

---

HSUN	<i>C-HLI constant</i> HSUN
------	----------------------------

---

**Description**

C-HLI constant HSUN

**Usage**

HSUN

**Format**

An object of class integer of length 1.

---

HSUSPN	<i>C-HLI constant</i> HSUSPN
--------	------------------------------

---

**Description**

C-HLI constant HSUSPN

**Usage**

HSUSPN

**Format**

An object of class integer of length 1.

---

HTENDA	<i>C-HLI constant</i> HTENDA
--------	------------------------------

---

**Description**

C-HLI constant HTENDA

**Usage**

HTENDA

**Format**

An object of class integer of length 1.

---

HTHU	<i>C-HLI constant</i> HTHU
------	----------------------------

---

**Description**

C-HLI constant HTHU

**Usage**

HTHU

**Format**

An object of class integer of length 1.

---

HTMIS	<i>C-HLI constant</i> HTMIS
-------	-----------------------------

---

**Description**

C-HLI constant HTMIS

**Usage**

HTMIS

**Format**

An object of class integer of length 1.

---

HTMOUT	<i>C-HLI constant</i> HTMOUT
--------	------------------------------

---

**Description**

C-HLI constant HTMOUT

**Usage**

HTMOUT

**Format**

An object of class integer of length 1.

---

HTRUNC	<i>C-HLI constant</i> HTRUNC
--------	------------------------------

---

**Description**

C-HLI constant HTRUNC

**Usage**

HTRUNC

**Format**

An object of class integer of length 1.

---

HTRUNCDB	<i>C-HLI constant</i> HTRUNCDB
----------	--------------------------------

---

**Description**

C-HLI constant HTRUNCDB

**Usage**

HTRUNCDB

**Format**

An object of class integer of length 1.

---

HTUE	<i>C-HLI constant</i> HTUE
------	----------------------------

---

**Description**

C-HLI constant HTUE

**Usage**

HTUE

**Format**

An object of class integer of length 1.

---

HTWICM	<i>C-HLI constant</i> HTWICM
--------	------------------------------

---

**Description**

C-HLI constant HTWICM

**Usage**

HTWICM

**Format**

An object of class integer of length 1.

---

HUMODE	<i>C-HLI constant</i> HUMODE
--------	------------------------------

---

**Description**

C-HLI constant HUMODE

**Usage**

HUMODE

**Format**

An object of class integer of length 1.

---

HUNCHG	<i>C-HLI constant</i> HUNCHG
--------	------------------------------

---

**Description**

C-HLI constant HUNCHG

**Usage**

HUNCHG

**Format**

An object of class integer of length 1.

---

HUNDFT	<i>C-HLI constant</i> HUNDFT
--------	------------------------------

---

**Description**

C-HLI constant HUNDFT

**Usage**

HUNDFT

**Format**

An object of class integer of length 1.

---

HUNDFX	<i>C-HLI constant</i> HUNDFX
--------	------------------------------

---

**Description**

C-HLI constant HUNDFX

**Usage**

HUNDFX

**Format**

An object of class integer of length 1.

---

HUNEXP	<i>C-HLI constant</i> HUNEXP
--------	------------------------------

---

**Description**

C-HLI constant HUNEXP

**Usage**

HUNEXP

**Format**

An object of class integer of length 1.

---

HUNSUPPORTED_FAME_VER	<i>C-HLI constant</i> HUNSUPPORTED_FAME_VER
-----------------------	---

---

**Description**

C-HLI constant HUNSUPPORTED\_FAME\_VER

**Usage**

HUNSUPPORTED\_FAME\_VER

**Format**

An object of class integer of length 1.

---

HUPDRD	<i>C-HLI constant</i> HUPDRD
--------	------------------------------

---

**Description**

C-HLI constant HUPDRD

**Usage**

HUPDRD

**Format**

An object of class integer of length 1.

---

HUSRPWTOOLONG	<i>C-HLI constant HUSRPWTOOLONG</i>
---------------	-------------------------------------

---

**Description**

C-HLI constant HUSRPWTOOLONG

**Usage**

HUSRPWTOOLONG

**Format**

An object of class integer of length 1.

---

HUTOOLONG	<i>C-HLI constant HUTOOLONG</i>
-----------	---------------------------------

---

**Description**

C-HLI constant HUTOOLONG

**Usage**

HUTOOLONG

**Format**

An object of class integer of length 1.

---

HWAfri	<i>C-HLI constant HWAfri</i>
--------	------------------------------

---

**Description**

C-HLI constant HWAfri

**Usage**

HWAfri

**Format**

An object of class integer of length 1.

---

HWAMON	<i>C-HLI constant</i> HWAMON
--------	------------------------------

---

**Description**

C-HLI constant HWAMON

**Usage**

HWAMON

**Format**

An object of class integer of length 1.

---

HWASAT	<i>C-HLI constant</i> HWASAT
--------	------------------------------

---

**Description**

C-HLI constant HWASAT

**Usage**

HWASAT

**Format**

An object of class integer of length 1.

---

HWASUN	<i>C-HLI constant</i> HWASUN
--------	------------------------------

---

**Description**

C-HLI constant HWASUN

**Usage**

HWASUN

**Format**

An object of class integer of length 1.

---

HWATHU	<i>C-HLI constant</i> HWATHU
--------	------------------------------

---

**Description**

C-HLI constant HWATHU

**Usage**

HWATHU

**Format**

An object of class integer of length 1.

---

HWATUE	<i>C-HLI constant</i> HWATUE
--------	------------------------------

---

**Description**

C-HLI constant HWATUE

**Usage**

HWATUE

**Format**

An object of class integer of length 1.

---

HWAWED	<i>C-HLI constant</i> HWAWED
--------	------------------------------

---

**Description**

C-HLI constant HWAWED

**Usage**

HWAWED

**Format**

An object of class integer of length 1.

---

HWBFRI	<i>C-HLI constant</i> HWBFRI
--------	------------------------------

---

**Description**

C-HLI constant HWBFRI

**Usage**

HWBFRI

**Format**

An object of class integer of length 1.

---

HWBMON	<i>C-HLI constant</i> HWBMON
--------	------------------------------

---

**Description**

C-HLI constant HWBMON

**Usage**

HWBMON

**Format**

An object of class integer of length 1.

---

HWBSAT	<i>C-HLI constant</i> HWBSAT
--------	------------------------------

---

**Description**

C-HLI constant HWBSAT

**Usage**

HWBSAT

**Format**

An object of class integer of length 1.

---

HWBSUN	<i>C-HLI constant</i> HWBSUN
--------	------------------------------

---

**Description**

C-HLI constant HWBSUN

**Usage**

HWBSUN

**Format**

An object of class integer of length 1.

---

HWBTHU	<i>C-HLI constant</i> HWBTHU
--------	------------------------------

---

**Description**

C-HLI constant HWBTHU

**Usage**

HWBTHU

**Format**

An object of class integer of length 1.

---

HWBTUE	<i>C-HLI constant</i> HWBTUE
--------	------------------------------

---

**Description**

C-HLI constant HWBTUE

**Usage**

HWBTUE

**Format**

An object of class integer of length 1.

---

HWBWED	<i>C-HLI constant</i> HWBWED
--------	------------------------------

---

**Description**

C-HLI constant HWBWED

**Usage**

HWBWED

**Format**

An object of class integer of length 1.

---

HWED	<i>C-HLI constant</i> HWED
------	----------------------------

---

**Description**

C-HLI constant HWED

**Usage**

HWED

**Format**

An object of class integer of length 1.

---

HWEEK_PATTERN	<i>C-HLI constant</i> HWEEK_PATTERN
---------------	-------------------------------------

---

**Description**

C-HLI constant HWEEK\_PATTERN

**Usage**

HWEEK\_PATTERN

**Format**

An object of class integer of length 1.

---

HWKFRI	<i>C-HLI constant</i> HWKFRI
--------	------------------------------

---

**Description**

C-HLI constant HWKFRI

**Usage**

HWKFRI

**Format**

An object of class integer of length 1.

---

HWKMON	<i>C-HLI constant</i> HWKMON
--------	------------------------------

---

**Description**

C-HLI constant HWKMON

**Usage**

HWKMON

**Format**

An object of class integer of length 1.

---

HWKOPN	<i>C-HLI constant</i> HWKOPN
--------	------------------------------

---

**Description**

C-HLI constant HWKOPN

**Usage**

HWKOPN

**Format**

An object of class integer of length 1.

---

HWKSAT	<i>C-HLI constant</i> HWKSAT
--------	------------------------------

---

**Description**

C-HLI constant HWKSAT

**Usage**

HWKSAT

**Format**

An object of class integer of length 1.

---

HWKSUN	<i>C-HLI constant</i> HWKSUN
--------	------------------------------

---

**Description**

C-HLI constant HWKSUN

**Usage**

HWKSUN

**Format**

An object of class integer of length 1.

---

HWKTHU	<i>C-HLI constant</i> HWKTHU
--------	------------------------------

---

**Description**

C-HLI constant HWKTHU

**Usage**

HWKTHU

**Format**

An object of class integer of length 1.

HWKTUE                      *C-HLI constant* HWKTUE

---

**Description**

C-HLI constant HWKTUE

**Usage**

HWKTUE

**Format**

An object of class integer of length 1.

---

HWKWED                      *C-HLI constant* HWKWED

---

**Description**

C-HLI constant HWKWED

**Usage**

HWKWED

**Format**

An object of class integer of length 1.

---

HWMODE                      *C-HLI constant* HWMODE

---

**Description**

C-HLI constant HWMODE

**Usage**

HWMODE

**Format**

An object of class integer of length 1.

---

HWRITE	<i>C-HLI constant</i> HWRITE
--------	------------------------------

---

**Description**

C-HLI constant HWRITE

**Usage**

HWRITE

**Format**

An object of class integer of length 1.

---

HYES	<i>C-HLI constant</i> HYES
------	----------------------------

---

**Description**

C-HLI constant HYES

**Usage**

HYES

**Format**

An object of class integer of length 1.

---

Integer-class	Integer
---------------	---------

---

**Description**

A reference class to implement mutable integer data.

**Fields**

value An integer vector.

**Methods**

initialize(i = 0L) Initialize an integer array.

**Examples**

```
status <- Integer(-1)
```

---

Numeric-class	Numeric
---------------	---------

---

**Description**

A reference class to implement mutable numeric data.

**Fields**

value A numeric vector.

**Methods**

initialize(x = 0) Initialize a numeric vector.

**Examples**

```
ver <- Numeric(-1)
```

---

rhli	<i>rhli: R access to the FAME C-HLI.</i>
------	--

---

**Description**

Complete access from R to the FIS MarketMap C-Toolkit (FAME C-HLI).

**Details**

FAME is a fully integrated software and database management system from FIS that provides the following capabilities:

- Time series and cross-sectional data management;
- Financial calculation, data analysis, econometrics, and forecasting;
- Table generation and detailed multicolor, presentation-quality report writing;
- Multicolor, presentation-quality graphics;
- "What-if" analysis;
- Application development and structured programming;
- Data transfer to and from other applications;
- Tools for building customized graphical user interfaces.

Programs should:

- Initialize with `cfmini` first.
- Display the version number with `cfmver`.
- ( *do other work* )
- Finish with `cfmfin`.

There are three data classes for use with `rhli`:

- `Character`
- `Integer`
- `Numeric`

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