

! Parse the ULL: extract the bash (signature) from the front of the URL puts (subst tmeg) exit puts (subot Smed) Sun Oct 9 14:03:10 1994 This is the CCI script that takes UMLs, processes them as payment orders, and returns a redirect to the real UML. Beturn an pre-confirmation page to the client. This page is returned before we know the identity of the user, and gives the user the apportunity to establish an account if they don't already have one. Write out the details of the payment ender, in 1876. (this soutine is used in the vertions (return-') restines! defice out the details of the payment order, in MTM. (this routine is a used in the warlows (roturn-) routines) sew_account_link and dumo_details are imported from mall.conf Part of payment system prototype ogen detabase for read-witte use ent library (../lib) courts library/all.com source library/ac.tcl source library/acheso.tcl courts library/acheso.tcl source library/allib.tcl source library/allib.tcl " /war/local/bin/tclsb-misc systegiaic seb-pi.ogi pid Lead support routines Andrew Payns paynedopennarket.com tritum [maket frees] return (subst Smeg) THE MEDICAL OF .

set response_retry_limit {{cgi_begin 'Open Market Retry Limit'}} For security reasons, we only allow a certain member of trice to get a correct response. We are unable to process your transaction. [cgi_end] ast payment_duplicate [[cgi_begin Tomplicate Payment Declined-]
be have received as HTTP request which would have the effect of
deplicating a payment. The most frequent cause of this is
backing up with your browser and re-fetching a page by accident.cp>
Cpen Marhet systems detect this case and return this page instead
of allowing a deplicate payment. (This is subtly different than
deliberately buying something trice - which is fine by us.)-cp>
Thank you for using Open Market. If you have an Open Market account, click on "continue" below many you will be prompted for your seconds mass and password. If you do not have an eccount, you can setablish see on line and return to this page to continue your Return a form rejecting the challenge response that was entered set response_bad ([cdi_begin 'Open Market Bad Response'] You have entered an invalid response to a challenge. Mithout the correct response, we cannot precess your payment transaction. cpsPlease return to the pirefeas page (using your browser's 'Back'' [wertion] and try again. cps=a brvfs'snew_account_link's
cing rr o'/images/open-button.gif's an account on-line.c/as-cps
ca brofs'scenting_url's-ling sre'/images/continus-button.gif's
demont transaction.c/as
fdemodealis
[cgi_end] proc return-bad-response () {
set med (1cg)_bad-response () {
the laye entered an involid payment response. Without the
correct response, we cambot precess your payment transaction
applicate return to the provious page (using year browner: "Back") (sering year) (sering year set mag ([cgi_begin 'Open Market Payment'] Teu hare selected an item that requires payment: [payment_details] present confirm (confirm unl) (
global now_account_link demo_details

SOV0163771

nph-payment.cgi

```
o and parse the remainder of the UNL.

o this block of code sets up default values for important fields not fields(nit).

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set fields(response) \
set fields(set) scheme
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```

9 14:03:10 1994

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nph-payment.cgi

```
exit
                                                                                                                     ) ·
     Part of payment system prototype
      This is the COI script that takes a customer name and produces a smart statement
 6 Load support routines.
 set library (../lib)
seurce $library/mall.conf
seurce $library/log.tcl
rum_with_log (
 source Slibrary/database.tcl
source Slibrary/ticket.tcl
source Slibrary/eglib.tcl
source Slibrary/html.tcl
source Slibrary/marmet.tcl
source Slibrary/marmet.tcl
  sysloginit mph-statement.cgi pid
  com detabase as statement
    Verify uper identity
  ey_getuser user
  OR, now we have a valid account, so build the statement
0 handle processing of commands
if (![imfe emists env(QUERY_STRING)]) { set env(QUERY_STRING) **)
e parse the CRT fields, if any, into fields
if [[string length $emet(QUERT_STRING)] == 0) {
            smart_statement user
} else {
            cgi_parse_querystring $emet(QUERY_STRING) fields omi omisecretkey
     if (![cgi_fieldcheck fields id)) {
    cgi_error GET_missing_id {array_to_list fields}
    if (![cqi_fieldcheck fields op]) {
    cgi_error missing_op [array_to_list fields]
    ) mart_statement user $fields(first) $fields(last)
        nph-statement.cgi Tue Sep 20 21:51:38 1994
```

And the second s

```
process GET string, making sure that it has not been tampered with
                                                                                                                                                                             cgi_parse_querystring $env(QUERY_STRING) fields oni omisecretkey
                                                                                                                                                                                                                                                                                                                                   if ($user(principal_id) := $fields(id)) {
    cgi_error user_missantch [concat [array_to_list fields] \
    (list user $user(principal_id)])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          exected 'delete from scart_item \
where shoppingcart_id = $fields(cid)'
db_delete_row shoppingcart $fields(cid)
exit
                                                                                                                                                                                                                                 if (![cgi_fieldcheck fields id)) {
   cgi_error GET_missing_id (array_to_list fields)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (![cgl_fleldcheck flelds cid]) {
    cgl_error op_removecart = missing cid*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              purchase (
if (![cgi_fieldcheck flelds cid]) (
cgi_error op_purchase 'missing cid'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if [![cgi_fieldcheck fields cid]) [
cgi_error op_remove 'missing cid"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      db_delete_row scart_item $fields(cid) puts [subst $returnpage]
                                                                                                                                                                                                                                                                                                                                                                                                                       )
if (!(cgi_fieldcheck fields opl) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 puts [subst $purchasemeg]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         switch sfields(op) (
                          send_cart_view user
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 removecart (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          db_read_record principal access_name \'opermarketSopenmarkst.com\' omi psy_prin_to_key omi _adsecretkey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            # bendle processing of commands
if (!{Info exists env(QUBT_STRING)}) { set env(qUBT_STRING) **)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            want unis mappes is that the items from a particular merchant will be parthaged as a unit and represented as a single item on your smart statement. The statement in turn will link back to descriptions of the individual items.

speciallink perv(SCNIPF_BARR) "Neturn to Shopping Cart") [cgi_mail
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       set purchasemeng ([cgi_begin "Purchase")
Made Species mot lablemented yet.qp.
What will heappen is that the items from a particular merchant
will be purchased as a unit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    set returnpage ([cgi_login "Operation Completed")
[ogi_lish Sepv(SCRIFT_BAME) "Return to Shopping Cart")
[ogi_sed]
                                                                                                  This is the CGI script that takes a customer name and produces a shopping cart statement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               get mecessary information to write tickets
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     · return a acreen with initial choices
                                                 Part of payment system prototype
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source $!!brary/ticket.tcl
source $!!brary/sgillb.tcl
source $!!brary/bral.tcl
source $!!brary/pryssen.tcl
source $!!brary/spypesst.tcl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source Slibrary/database.tcl
0:/usr/local/bin/tclsh-misc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 syslogiait aph-cart.cgi pid
                                                                                                                                                                                                                                                                                                                                                                set library (../lib)
source $library/smll.conf
source $library/log.tcl
run_with_log {
                                                                                                                                                                                Lawrence C. Stewart
stewart@openmarket.com
                                                                                                                                                                                                                                                                                                                     Load support routines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Verify user identity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pay_getuser user
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     open database
```

nph-cart.cgi Well Oct 12 15:04:13 1994

This mechanism exists so that users without ONI accounts have an opportunity to jump off and establish one. Any errors here are reflected back to the client with an 'authorization required' message, which will make the client prompt for username/password. find out if there is an existing shopping cart if not, create one set query select ' from shoppingcart ' cgi_return_euth_required Verify user stuff:
- user ID was supplied
- valid user ID
- valid user password

SOV0163778

nph-cl.cgi

Wed Oct 12 16:10:29 1994

3 nph-c1.cgi Wed Oct 12 16:10:29 1994

```
#!/ust/local/bin/tclsh-misc
      Part of payment system prototype
     This is the CGI script that takes an access URL for a shopping cart.

It marks the cart paid, if it ian't elready, and causes the order to be sent to the wandor.
    # Lawrence C. Stewart
# stewart@opermarket.com
   5 Load support routines.
    set library (../lib)
source $library/mall.conf
source $library/log.tcl
rum_with_log (
   source flibrary/database.tcl
source flibrary/ticket.tcl
source flibrary/oglib.tcl
source flibrary/shal.tcl
source flibrary/saysmet.tcl
source flibrary/shoppingcart.tcl
   set returnpage {[cyi_begin 'Operation Completed']
[cgi_link Semv(SCRIFT_MAMME) "Return to Shopping Cart']
[cgi_end]
 net purchasems ([cgi_begin "Purchase")
This function not implemented yet.qp
What will heppen is that the items from a particular merchant
will be purchased as a unit
and represented as a single item on your smart statement. The
statement in turn will link back to descriptions of the
indiv[dwal items.
-pp.[cgi_link $env(SCRIPT_MAME) "Return to Shopping Cart"]
[cgi_end]
  syslogimit mph-cartaccess.cgi pid
  open_database
 * Verify user | dentity
 pay getuser user
b handle processing of commands
if (![info exists env(QUERY_STRING) ]) { set env(QUERY_STRING) '')
e parse the GET fields, if any, into fields
if [[atring length $emr(QUERY_STRING)] == 0] {
            there is no query yet, so this must be the initial entry
            einto the system.
         • get necessary information to write tickets
        db_reed_record principal access_name \"openm
psy_prin_to_key omi omisecretkey
                                                                                                               arketSoponmarket.com\* and
1
```

```
* return a screen with initial cheices)
   send_cart_wies ager
else i
   process GET string, making sure that it has not been tampered with
   cgi_parse_querystring $env(QUERY_STRING) fields omi omisecretkey
  if (!{cgi_fieldcheck fields (domain expire tid)]) {
    cgi_error GET_missing_ld (array_to_list fields)
  8 now convert domain into cart id
regemp [cart-(.*1) $fields(domain) xx cartid
if (|[info exists cartid]| {
cgi_error bad_cartid |erray_to_list fields}
  if (![db_read_row shoppingcart $cartid old]) {
    cgi_error bad_cart {array_to_list fields}
  | if (Sold(purchased) == 0) (
set new(purchased) | set new(purchased) |
set new(purchased) |
set new(purchased) |
set new(purchased) |
switch -- Src (
-- 3 ( cgi_error bad_cart )
-- 1 ( cgi_error match_error )
        ) s cart is now marked purchased, and we now need to send the order
 }
send_invoice_view user $cartid $fields(tid)
```

Tue Sep 27 21:32:23 1994 nph-cartaccess.cgi

```
6 Common routines for talking to the payment database
  # L. Stewert
# stewert@openmarket.com
  # library has to be defined source $library/dbschema.tcl
    .....
     Open up the payment system database; leave database handle in $syb use this one for read-write purposes
 proc open_database [] {
    global syb reaccount repassword
    set syb (sybconnect $reaccount $repassword)
     Open up the payment system database; leave database handle in Sayb use this one for getting statements or other read-only info
      c open_database_as_statement () {
  global syb reaccount repassuord
  set syb [sybconnect $reaccount $repassword]
    Bum a SQL command, raising a Tcl error (with the SQL error text) if it completed with error
 5 KKK what does the error call do?
     or execuel (cami) (
global syb sybmag
     if (catch (sybeql $syb $cmd) meg] {
    error "execogl error <$mmg> in $cmd: $sykmag(magtext)"
      return (mag
Load a (row) result into Tcl array
0
proc loadresult (array) (
global syb sybmag
upwar Sarray o
set row [sybmag (maxtrow)
foreach column [sybcols $syb]
set a[scolumn] [lindex $row 0]
set row [lramps $row 1 end]
   ; set sybmag(nextrow) $mextrow
```

database.tcl Mon Oct 10 13:57:59 1994

```
* useful routines
 ]
if [info exists identity($table)] (lappend res $identity($table))
set res
     pet res
proc quotadfields (table ary) {
    global tables identity
    upwar Sary a
    if [info exists a] { unset a}
    regeub -all ((\$p\t)|\) $tables($table) "" x2
    forsach al [eplit $x2 ] {
        set n [erring trim $s1]
        set af[string trim $s1\] [regexp {\\\"[^\-]+\\\" }n]
      if [info exists identity($table)] [set a($identity($table)) 0)
  the array new has new(field) = value pairs. Each one is checked equinst the requirements put upon it by the database Fields that need to be quested are quoted.

If any fields fail the checks, then the procedure returns 0
proc db_validatefields { table a_new } {
    upwar $a_new new
    # field validation goes here
         database.tcl
```

```
8 1. trim whitespace and quotes
8 2. check for bad characters
8 3. check for size limits
foreach item (array names new) {
    regsub -all (") Snew(Sitem) ( ) t
    set new(Sitem) {string trim St}
}
     f quote all fields in new which need it
quotedfields Stable qf
foreach item [array names new] {
   if ($qf($item)) { set new($item) \"$new($item)\"}
db_update_row table id old new
updates one or more fields in a row.

table specifies which table
id selects a record (this is a value in the Sidentity(table) column
old and new are arrays containing the old and new values for the fields
with old(field) = value
a transaction is opened, the record is read, if all the old values
match their current values, then the values in mee are subsituted.
There is no need for the Items in old to be the same as those in new
 If a match failure occurs, a syslog entry is written and the procedure
 returns -1
If the update fails, then the procedure returns -2
   r db_update_row (table id a_match a_new) {
    global identity
    upwar 5a_match match
    upwar 5a_new new
    if (!db_read_record $table $identity($table) $id current}] {
        syslog_log (list [list prog db_update_row-missing) \
            return -3
        }
    }
}
 return -1
          )
  * validate new record fields db_validatefields $table new
 set q 'update Stable set \n'
foreach item (stray names new) {
    lappend ir 'Sitem * Snew(Sitem)*
    s record old state of items to be changed
    set old(Sitem) Scurrent(Sitem)
eppend q "(n where $identity($table) = $id\n'

8 we write the log record before doing the update because if
```

Mon Oct 10 13:57:59 1994

```
proc uid_velid (id) {
   if {|[db_pead_record ntimes ntimes_id $id a}} { return 0 }
   set now [currecttime]
   if {|[currenttime] - $a(expiration)} > 0; { return 0 }
   intr a(uses)
   if {$a(uses) > $a(uspiration)} { return 0 }
   executed "update ntimes set uses = $a(uses) where ntimes_id = $id"
   return $a(uses)
}
                                                                                                        Mon Oct 10 13:57:59 1994
```

database.tcl

```
Tables in pays41010

This file generated automatically by getschema.tcl
on Non Oct 10 15:22:15 ED7 1994

s name of the payment database
set paydb pays41010

s sybase account used for read-write access to the database
set reaccount pays41010
set repassword pays41010
set repassword state941010

Fields in pays41010.principal

bas identity field principal_id
set tables(principal) {
    '$p(access_name)\',
    '*p(access_name)\',
    '*p(a
```

```
* has identity field account_id
act tables(account) {
    '*$p(card_number)\'.
    '*p(card_number)\'.
    '*p(card_number)\'.
    '*p(balling_nems)\'.
    '*p(balling_nems)\'.
    '*p(pladdrems_l)\'.
    '*p(pladdrems_l)\'.
    '*p(court_n)\'.
    '*p(currency)\'.
    '*p(currency)\'.
    '*p(currency)\'.
    '*p(currency)\'.
    '*p(rtype)\'.
}

* Pields in pay941010.balance

* Pields in pay941010.balance_id

* p(account_id).
    *p(account_id).
    *p(ac
```

*

dbschema.tcl Mon Oct 10 16:49:33 1994

```
Fields in pay941010.transaction_log
   bas identity field transaction_log_id
set tables(transaction_log) {
    $p(anount),
    \'$p(currency)\',
    $p(transaction_date),
    $p(intitator),
    $p(benificiary),
    $p(form_account),
    $p(to_account),
    \'$p(transaction_type)\',
    \'$p(sp_address)\',
    \'$p(sp_address)\',
    \'$p(spuil\',
    \'$p(description)\',
    \'$p(description)\',
    \'$p(description)\',
}
}
   )
set identity(transaction_log) transaction_log_id
   Fields in pay941010.duplicate
  set identity(duplicate; duplicate_id
  Pields in pay941010.authorize
 }
set identity(authorize) authorize_id
e Fields in pay941010.nextchallenge
bas identity field nextchallenge_id
set tables(nextchallenge) (
                                                           Mon Oct 10 16:49:33 1994
           dbschema.tcl
```

```
$p(principal_id).
$p(challenge_id)
    }
set identity(nextchallenge) nextchallenge_id
   Pields in pay#41010.principal_authentication
   # has identity field principal_authentication_id
set tables(principal_authentication) {
    $p(principal_id),
    \"$p(scheme)\"
    ;
set identity(principal_authentication) principal_authentication_id
   Fields in pay941010.softnetkey
   e has identity field softnetkey_id
eet tables(softnetkey) {
    $p(principel_id),
    '*p(secret_key)\"
   }
set identity(softnetkey) softnetkey_id
 Fields in pay961010.snk
 bes identity field snk_id
set tables(snk) {
    $p(principal_id),
    \"$p(secret_key)\"
 set identity(snk) ank_id
 Fields in pay941010.ntimes
 e has identity field ntimes_id
set tables(ntimes) {
    $p(uses),
    $pmanuses),
    $p(expiration)
  set identity(ntimes) ntimes_id
Fields in pay#41010.shoppingcart
# has identity field shoppingcart_id
```

5 dbschema.tcl Mon Oct 10 16:49:33 1994

1994

```
puts [cgi_begin]
puts 'cfTtLE>Shopping cart for Suser(principal_name)</fr>
puts 'cfITTLE>'
puts 'cfITTLE>'Chopping cart for Suser(principal_name)</fr>
//NI>'
puts 'Shopping cart for Suser(principal_name)
//NI>'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         puts (Your shopping cart can include itams from one or more merchants. Each item is a link that will take you back to the page on which that item is found. In addition, acch item has a "put back" button that will remove the item from the abopping cart. Finally, you can purchase the items from each merchant.cp> A shopping cart will remain active for 24 hours.cp>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 proc send_cart_view ( a_user (shoppingcart_id 0) (scart_item_id 0)) (
upvar & A_user user
upvar & A_user user
global secretkey sykasg merchant cart
global secretkey sykasg merchant cart
global cart_total cart_items cart_currency
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $ci(description) ... $ci(amount) \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if scart_item_id is present, explain that this is the newest item
                                                                                                                                                                                                                                                                                                                                                                                                  set cart_total [expr $cart_total + $ci(amount)]
if ([etring length $ci(aurl)] > 0 |
set url [pay_build_emartlink $ci(domain) $ci(aurl) \
$ci(axpiration) |
$ci(axpiration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                set url (psy_build_smartlink $ci(domain) $ci(url) \
[expr [currenttime] + 86400] \
$ci(scart_item_id) secretkey int]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      send the user a view of the cart
if shoppingcart_id is present, restrict the view to only
the relevant manufacturer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       set query "select * from shoppingcart \
maker principal_ids \
and purchased = 0 \
and purchased = 0 \
and (expiration_date - [currenttimes]) > 0 \end{area}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if ($eykmeg(nextrow) := "REG_ROW") ( break )
lappend idlist $ctemp(shoppingcart_id)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           set result [execeq1 '$query']
while ($sybmeg(nextrow) == 'MBC_ROW') {
  loadresult ctemp
                                             upvar & _ci ci
global secretkey user
global cart_total cart_items cart_currency
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (![info exists idlist]) {
   puts "Your shopping cart is empty."
   puts [cgf_end]
                                                                                                                                                                                                                              incr cart_items
set cart_currency $ci(currency)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   $ <a href=\'$url\'>
($c1(currency))</a>
send_invoice_item ( a_ci ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         puts "<11>>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ) **[* (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -1:-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if [[string compare $cart_currency $ci(currency]] |= 0] { set cart_errer 'Cart contains multiple currencies!'
                                                                                                                                                                                                                                                  This file contains subroutines for shopping cart management
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     set cart_total [eaps Scart_total + Sci(amount)]
set wrl [pay_build_martlink Sci(domain) Sci(url) \
[eaps [currenttime $4:(domain) Sci(url) \
Sci(acart_item_id) secretary int)
set purchase [eay_self_link [list \
[list operators] \
[list cid Sci(acart_item_id) \
[list id Suser(principal_id)] \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       set paylink [sec_create_ticket secretkey fields]
return špaylinkbasešpaylink
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           proc send_cart_item { a_ci } {
    upon Ba_ci i
    upon 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ve (my_self_link [list \
[list op remove] \
[list cid &cidcart_item_id)] \
[list id &user[principal_id)] \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     set old Serv(SCRIFT, MANE)
set env(SCRIFT, MANE) /bin/mph-cart.cgi
set result [eqf_self_link $1]
set env(SCRIFT, MANE) $01d
return $reealt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ($c1 (currency)) </a>,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  roc my_self_link ( 1 ) (
globel env
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  200
```

```
exit
             foreach cartid $idlist {
   if (!db_read_row shoppingcart $cartid cart)} {
      cgi_srror send_cart_view "Cart $cartid gone missing"
}
                     if (!fdb_read_row principa) $cart(merchant_id) merchant)) {
    cgi_error send_cart_view "Cart $cartid merchant gone missing"
                 pay_error send_cart_view 'Cart Scartid merchant])

pay_brin_to_key merchant secretkey

set cart_total 0

set cart_tiems 0

set cart_tiems 0

set cart_currency '

puts 'the>rems from Swerchant (principal_name) </h2>

puts 'These items will remain in the shopping cart until \

[ctime Scart(expiration_date)] <-p>
puts "qu|>-

set query 'select ' from scart_item \

where shoppingcart_id * Scartid'

db_map_query Squery send_cart_item

puts "
                  þ
                  ] '<DBG SRC=\'../images/empty-cart-button.gif\' ALT=\'Empty cart
of all items from $merchant(principal_mass)']<br/>cbr>'
        puts [cgi_end]
8 send the user a view of the purchased collection of goods
8 the arguments are the shopping cart id and tid
pres send,isvoice,view ( a_user shoppingcart_id tid) (
upwar fa_mser user
global secretbry sybmeg merchant cart
global cart_total cart_items cart_currency
       8 first build a list of the cart id's to represent set cartid $shoppingcart_id
      if (![db_read_row shoppingcart $cartid cart]) {
    cgi_arror send_invoice_view 'Cart $cartid gone missing'
      )
if (|idb_read_row principal $cart(merchant_id) merchant)) {
    cgi_error send_invoice_view "Cart $cartid merchant gone missing"
     )
if (![db_read_row transaction_log Stid trans)) {
    cgi_error send_invoice_view "Cart $cartid transaction gone missing"
     psy_prin_to_key merchant secretkey
set cart_total 0
```

```
set cart_items 0
set cart_currency **
puts [cgi_begin *Goods purchased from $merchant(principal_name)*]
puts "ch2>Items</h2>"
puts "ch2>Items</h2>"
puts (These are the items included in this purchase. Each item
is a link that will take you back to the page from which the
item was purchased.)
puts "cul>"
set query "select " from scart_item \
where shoppingcart_id = $cartid"
db_map_query $query send_invoice_item
puts "
puts [cgi_end]
```

The second description of the second

```
6
8 build mart statement for user
0
6 L. Stewart
0 stewart0openmarket.com

    parray is an array containing the principal record from the
payment database

     the database should be open as global syb
    proc smart_statement ( a_prin (first 0) (last 0x7frffffff)) (
upwar Sa_prin user
global symmeg env payment_server_root secretkey
            * OK, how we have a valid account, so build the statement
           puts [cgi_begin "Smart Statement for $user(principal_name)"]
  puts 'Your Smart Statement is a record of recent transactions you have made on the network. Each line contains the date of the transaction, the merchant involved, a description of the item purchased, and the amount, qp'
You will netice that the item description is in fact a hypertext link, where this link goes depends on what kind of item is involved:\n'
   puts 'cal> - The link goes to the current order status 
<!!>- Information product - The link goes to the item you bought 
<!!>- Information service - The link goes to more information about the item 
  puts 'In addition, the date field of am item is also a link. This link will take you to more detailed information about the item.
 if ($first == 0) {
    set dk! [fint-lock (currenttine) "%T %m")
    set first [convertclock '[lindex $dtl 1]/1/[lindex $dtl 0]")
    set last (currenttine)
  )
set my (fatelock Sfirst '48 4Y')
 puts "ch2>Transactions in [lindex tay 0]. [lindex tay 1]</h2>
 # read all the transactions, and put them into an array
 set query 'select' from transaction_log
where (initiator = Suser(grincipal_id)) and
(transaction_date == Sfirst) and
(transaction_date < $last)*
  set result [exected] "Squery"]
set mastrons 0
while ($99tmsg(maxtrow) == "RSG_ROM") {
loadresult res.Smamtrons
if ($symmg(maxtrow) != "RSG_ROM") { break }
```

smartstatement.tcl Sun Oct 9 17:25:19 1994

smartstatement.tcl Sun Oct 9 17:25:19 1994

```
upvar $a_key key
set a(kid) [pay_makekeyidpair $key(principal_id) $key(secretkey_id))
return [create_ticket $key(secret_key) a)

sec_create_ticket_list is the same as sec_create_ticket
except that nv is a name value list instead of an erray

proc sec_create_ticket_list (a_secretkey list_nv) {
    upvar $a_secretkey secretkey
    ilst_co_array $list_nv nv
        return [sec_create_ticket secretkey nv]
}
```

mall.conf

```
s why is this needed? Don't we know what machine we are running on?

set payment_server_root 'http://payment.openmarket.com'

s These items refer to the merchant server

s Why is ther server name needed? When is it used?

set merchant_server_root 'http://www.openmarket.com'

set merchant_demo_path '/demos/awg15'

s This is the URL where the 'open a new CNI account' points to.

set new_account_link $payment_server_root/service/sstablish.html

Details of the demo account.

set demo_details !

dalechquates-sp-<1>MOTE:</i>
->>testusersequemarket.com</b>
with the password <br/>
->>testusersequemarket.com</br>
//blackquotes
```

Tue Sep 27 12:07:05 1994

```
win Trees

Win Trees

Win Trees

Win Trees

Commended and July 11 1111;5 ET 1994 by treese

Commended and July 11 1111;5 ET 1994 by treese

Commended and July 11 1111;5 ET 1994 by treese

Latt madified on Wed July 11 1111;5 ET 1994 by treese

Latt madified on Wed July 11 1111;5 ET 1994 by treese

Latt madified on Wed July 11 1111;5 ET 1994 by treese

proc run, with, log learibt | (

| flatch lunguest | (| flatch | lungue) | (| flatch | lunguest | lungue) |

| sea prog | (| flatch | lungue) | (| flatch | lungue) | (| flatch | lungue) |

| sea prog | (| flatch | lungue) |

| sea prog | (| flatch | lungue) | (|
```

6 13:46:35 1994

Tue Sep

log.tcl

http.tcl Fri Aug 26 13:51:12 1994

The state of the s

proc signature () (
global merchant_server_root merchant_demo_path
set mag (*packrav4, MEME**Serverhant_server_root/*)
set mag (*packrav4)
set mag Shortcut routines for making Will .- these routines return their result proc title (text) { return '<title>\$text</title><hl>\$text</hl>'

Ommerate a link to the feedback pages about the specified subject return [subst Smeg]

: Seedback-link (taxt subject) {
@ideal pymemei-server_cook
@ideal pymemei-server_cook
set subject (url-secque Saubject)
return 'ca hrefa':Spaymant_server_root/bin/feedback.cgl?Ssubject\'>\$text</te Omnerate a link to the dollar sign image

oc dollar-image () (return 'cimg src:\'/images/dollar.gif\'>'

Generate a link to the SmartStatment slobal payment_server_root

Exorthand for starting and ending NTML documents (note that these routines write to stdout--they are intended to be used in CGI scripts) return '.a bref.''Spayment, 'erver_root/bin/mph-statement.cgi\'> View your SmartStatement

proc begin-bind (title) {
puts "content-type: tent/bind"
puts " html.tcl

proc link (args) (
global linklist
 pareearga argvals (-url -name) Sargs
 pareearga argvals (-url -name) Sargs
 append linklist -(Lr -A NOMF=*sargvals(-url)\\">Sargvals(-name)\"A>\"A>\"A proc userurl (url id domain) {
 global env merchant_server_root merchant_demo_path
 s et nv (expire) (sopx [currenttime]+60000]
 set nv (domain) \$domain
 set nv (domain) \$domain
 set nv (principal) \$id
 set necer_key testmerchant
 set hash [create-ticket 'secret_key \$erv(REMOTE_ADDR) \$domain' nv)
 return "\$merchant_server_root/#\$hash\$merchant_demo_path/members/\$url" Whate hypertaxt links from a file. Links are given on two lines: Parse an argument vector.
Usage: parseaugs array-name list-of-options arg-vector
array-name is the name of an array that w'll get the options
list-of-options is a list of option names
arg-vector is the argument list to be processed. for (set i 0) (\$i < [llength \$arglist]) (incr i) (
 set opt [lindex \$arglist \$i]
 incr i</pre> set val [lindex Sarglist \$1] set a(Sopt) Sval proc parseargs (name argnames arglist) (
upvar Sname a
foreach i Sargnames (
set a (\$1) *** XXX needs error checking · Write a hypertext link return \$1inks set linklist "

proc makelinks (filename) (

Mon Oct 10 16:39:24 1994

\$ 6			
proc load (file) (global linklist source Sfile set retval Slinklist set linklist return Sretval			
2000			

```
Cumerally useful
            L. Stewart
StewartSopenmarket.com
  # send a screen back to the user explaining something about the error 
### and record the message in syslog 
proc ogi_error ( |branch **) {clearst **} {opt **}) { 
    set mag {[cgi_begin "Transaction Error"} 
    m error has occurred during the processing of your transaction. 
    The base been logged to our attention.cp>
   (cgi_end)
              puts (subst $meg)
symlog_leg [list [list prog $branch] [list text $stext]]
exit
proc ogi_errec_list { log_list (opt ""}) {
    set msg [cpi_bogin "Transaction Error"]
    an error has secured during the processing of your transaction.
    It has been logged to our attention.
    opt logi_small
             puts (subst tang)
syslog_log (log_list
8 ogi_perse_queryetring will typically be used to process something which
8 has the form of a payment UEL - there are signed ness-value pairs
0 in the query string.
      the query string is everything after the "?"
the unexchant argument is the name of an array to be filled in with
the principal record for the merchant who wrote the query string
the unexcathey argument is the name of an array to be filled in with
the right key for this merchant
the unfields argument is the name of an array to be filled in with
the name value pairs.
     }
parso the GST fields, if any
if ([string length Squary] > 0) {
   if [regesp ([["1]">) ) Squary dumny hash remainder] {
        cq:_parso Symmatimer fields
        if ([[pay_verify_signature thanh $remainder fields \
            secrethey meether[] {
        cqi_sere cqi_parso_quaryetring "bad hay; Squary" \
}
```

The state of the s

```
'There was a problem with the URL'
                cgi_fieldcheck takes an array and a list of required fieldmames if any of the fieldmames are not defined as elements of the array then cgi_fieldcheck returns 0
         If all the fields exist, then each one is strimmed of whitespace
at the ends and any quotes are removed.
XUX Should expand to remove other had stuff that might be in there
        c cgi_fieldcheck { a_fields fieldlist {missing xxx}} { upvar $a_fields a if { [string compare $missing xxx} } := 0 } { upvar $missing misst
        )
set mlist ()
foreach field $fieldlist (
   if ((finto exists a($field))) (
        lappend mlist $field
        continue
              }
set s($field) (string trim (string trim $a($field)] (\")]
if ([string length $a($field)] == 0) {
    lappend mlist $field
        if ([llength Smlist] > 0) ( return 0 ) return 1
     cgi_begin_nph
 proc cgi_begin_nph { (title "")) {
    return [cgi_begin $title]
    6 cgi begin
8 transmits the stuff that you need at the beginning of a scree
8 eccepts on optional title
    tent returned as a string, suitable for use in [subst] pages
```

Company of the second of the s

Mon Oct 10 17:33:44 1994 cgilib.tcl

- Will -

cgilib.tcl Mon Oct 10 17:33:44 1994

```
[cgi_title 'Redirect']
You appear to have a very old Morld Wide Web browner. that doesn't
amport the redirect operation. We strongly suggest upgrading to
the latest aoftware.p>
Nare's the <a href=\"$url\">actual document</a>.
[cgi_eni]]]

authat [NTTF/1.0 200 CK
Cuntant-type: test/Attal

[cgi_title Stitle] $deac
qp-<a href='$url'>$linktext</a>
[cgi_end])
]
```

Mon Oct 10 17:33:44 1994

a before East a succ

cgilib.tcl

5

```
Payment related lib
L. Stewart
stewart@openmarket.
originally by payme
        Payment related library routines
        L. Stewart
stewart@openmarket.com
  if |info exists anv(SECRET_KRY)| (set secret_key $env(SECRET_KRY))
if [info exists anv(SECRET_KRY_ID)] (set secret_key_id $env(SECRET_KRY_ID))
 B Base link of all URLs referring to the payment system:
  set paylinkbase "$payment_server_root/bin/nph-payment.cgi?"
 proc paylink (args) {
    parseargs argwals {-test} $args
    set url (payurl $args)
    return "<a href=""http://sergvals(-test)</a>"
# Create a payment URL. This is used by paylink and others.
       pagual (argo) (
glabal psylishbase secret_key secret_key_id
patesarys sw (-cset -url -domain -ttl -desc) [lindex Sargs 0]
set fielde(sut) % vv -url;
set fielde(sut) % vv -cset;
set fielde(sut) % vv -cset;
set fielde(sut) % vv -tset;
set fielde(domain) % vv -domain)
set fielde(domain) % vv -tset;
set fielde(domain) % vv -tset;
set fielde(domain) % vv -tset;
if (fafe exists sv (-id)) (set fielde(id) % vv (-id))
set psylishe (reset=-ticket % secret_key fielde)
yeturn % paylinkbase % psylink
Create en access URL
8 ampacted fields: expire domain ip
proc pay_accessurl (url a_fields a_secretkey (fmt int)) (
    upver $a_fields fields
    upvar $a_pecretkey secretkey
       set ticket (sec_create_ticket secretkey fields)
      switch -- $feet {
                     get (
set result Surl?$ticket
            )
default {
    ogi_error "psy_accessurl unknown format &fmt"
            payment.tcl
```

A STATE OF THE PARTY OF THE PAR

```
)
return Sresuit
           construct a smart link to the thing purchased, for purposes of putting into a smart statement
          roc pay_build_smartlink (domain url empiration tid a_secretkey fmt) {
global env
upwar Sa_secretkey secretkey
          if ($domain != "") then {
    set nv(domain) $domain
    8 originess seans this URL came from the smart statement
    set nv(expire) $expiration
    set nv(expire) $expiration
    set nv(ip) $env(REMOTE_ADDR)
    set nv(ip) $env(REMOTE_ADDR)
    set nv(id) $tid
    return (pay_accessuri $url nv secretkey $fmt|
} else {
          } else (
return Sur)
         )
         build a keyid suitable for transmission
   proc pay_makekeyidpair ( mid kid ) (
regaub ({.}0$) $mid -- mid
regaub ([.]0$) $kid -- kid
set rasult $mid.$kid
       Parse an argument vector.
Usage: parsearps array-name list-of-options arg-vector
array-name is the name of an array that will get the options
list-of-options is a list of option names
arg-vector is the argument list to be processed.
           oc parseargs (name argnames arglist) (
upwar $name a
foreach i $argnames (
set a($i)
                     for (set i 0) ($i < [llength $arglist]) (incr i) {
    set opt [lindex $arglist $i]
    incr i
    set val [lindex $arglist $i]
    set a($opt) $val</pre>
Verify merchant stuff:

- valid merchant ID

- valid merchant signature on payment URL

Any errors here are fatal (i.e. someone's been mucking with the
        Any errors here are fatal (i.e. someone's been mucking with the URL)
```

Fri Sep 16 09:23:17 1994

```
set t(amount)
set t(currency)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ....
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ::::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sep 16 09:23:17 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          set kid_split (split Stields(kid) .)
if ([llength Skid_split] != 2) {
    cgi_error verify_signature 'kid_split bad format: $env(QURRY_STRING) "
payverify_signature (hash remainder a_fields a_secretkey a_merchant) {
    upvar $a_fields fields
    upvar $a_secretkey secretkey
    upvar $a_secretkey secretkey
    upvar $a_secretkey secretkey
    if (!!info exists fields(kid)) {
        cgloal erv
        cgl_error verify_signature 'no $kid: $env(QUERY_STRING)'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (idb_read_record principal principal_id $mid merchant) := 1) {
    cai_error verity_signature 'bed merchant $mid: $env(QUERV_STRING)'
                                                                                                                                                                                                                                                                                                                 set mid [lindex $kid_split 0]
set kid [lindex $kid_split 1]
if ['db_read_record secretkey_id $kid secretkey] != 1} {
    cgl_erear_record secretkey secretkey_id $kid secretkey] != 1} {
    cgl_error verify_signature 'bad key $kid: $env(QUERT_STRING)'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (![get_principal $env(RENOTE_USER) user]) {
    syslog_log [list pay_getuser \
    [list 'Invalid user id' $env(RENOTE_USER)]]
    puts [cgi_return_auth_required $reals]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   proc pay_getuser (a_user (realm 'Open Market Account') (
global env
epont $A_user user
if ([i] and are env(REMOTE_USER)) (
puts [cgi_return_auth_required $realm)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if [[[info exists env(RENOTE_PASSED]]] (
syslog_log [list pey_getuer /
[list 'no RENOTE_PASSED'] /
[array_co_list env]]
puts [cgi_return_auth_required $realm]
exit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e get user name and password
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ==
```

proc enter_transaction (initiator benificiary from_account to_account eacount currency ip_address domain expiration unlidescription date [mt] (at the moment, the only transaction code is " p" for payment this will be extended for returns, disputes, presuth, credit, etc. copy key fields from principal record to secretkey record e duplicate_check scans the duplicate table for any a record where the initiator matches cid and the benificiary matches mid and the domain matches domain e and the access has not yet expired.

proc duplicate_check { cid mid domain } { global system. puts [cgi_return_auth_required \$realm]
exit proc pay_prin_to_key (a_prin a_key) (
upvar \$a_prin prin
upvar \$a_key key
upvar \$a_key key
set key(secretkey_id) \$prin(principal_id)
set key(secretkey_id) \$prin(secretkey_id)
set key(secretkey) \$prin(secretkey_id) expiration: a delta interval in seconds url: varchar(255) ormat xx.xx.xx.xx as a string s Enter a transaction in the database create record for transaction_log \$currency (REC_ROW) | return [sybnext \$syb] cid: numeric customer id mid: numeric merchant id description varchar (40) ipaddr: format xx.x domain: varchar(40)

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payment.tcl Fri Sep 16 09:23:17 1994