



(help rules)

QC

allocate(3) MudOS v21c2 (5 Sep 1994)

:

allocate() - (array).

:

mixed *allocate(int size);

*allocate(size);

:

size (element) .

0,

(10000) . (initialized)

0.

:

sizeof(3), allocate_mapping(3)

:

Spock @ FF 96.Oct.12.

(printed 3/16/95)

filter_array(3) MudOS v21c2 (5 Sep 1994)

:

filter_array() - .

:

mixed *filter_array(mixed *arr, string fun, object ob,
mixed extra, ...);

mixed *filter_array(mixed *arr, function f,
mixed extra, ...);

*filter_array(*arr, fun, ob,
extra, ...);

*filter_array(*arr, f,
extra, ...);

:

filter_array() , arr
ob fun . arr
(element) fun , fun
(parameter). extra ,
fun
fun 1 , fun
() . ,
f, ob->fun()
. arr , filter_array() 0.

:

sort_array(3), map_array(3)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

map_array(3) MudOS v21c2 (5 Sep 1994)

:

map_array() - (element)

:

mixed *map_array(mixed *arr, string fun, object ob,
 mixed extra, ...);

mixed *map_array(mixed *arr, function f, mixed extra,
 ...);

*map_array(*arr, fun, ob,
 extra, ...);

*map_array(*arr, f, extra,
 ...);

:

ob->fun() f arr ,

. arr

. extra

::

foreach (index) arr[index] = ob->fun(arr[index],extra);

ob->fun(arr[.index.], extra)

. arr , map_array() 0.

:

filter_array(3), sort_array(3), map(3)

:

Spock @ FF 97.Feb.18.

(printed 3/16/95)

member_array(3) MudOS v21c2 (5 Sep a994)

:

```
member_array() - (array) (string)
                (item) ,
```

.

:

```
int member_array( mixed item, mixed * | string arr, void |
                 int start );
```

```
member_array( item, * arr,
              start );
```

:

```
item arr , .
start , start .
item, -1.
```

:

```
Spock @ FF 97.Apr.15.      (printed 3/16/95)
```

sort_array()

sort_array()

```
mixed *sort_array( mixed *arr, string fun, object ob );  
sort_array( arr, fun, ob);
```

```
mixed *sort_array( mixed *arr, function f );  
sort_array( arr, f);
```

```
mixed *sort_array( mixed *arr, int direction );  
sort_array( arr, direction)
```

"arr"

ob fun
-1, 0, 1

"arr"
"direction"
0 1 -1

filter_array(3), map_array(3), strcmp(3)

by (Find@tx)

unique_array(3) MudOS v21c2 (5 Sep 1994)

```
:  
  unique_array() - .  
:  
  mixed unique_array( object *obarr, string separator,  
                     void | mixed skip );  
  mixed unique_array( mixed *arr, function f,  
                     void | mixed skip );
```

```
  unique_array( *obarr, separator,  
               skip );  
  unique_array( *arr, f,  
               skip );
```

```
:  
  unique_array() separator  
  . obarr ,  
  . obarr separator  
  . skip, skip  
  .  
  .  
  f , f .  
  .
```

```
:  
  ,:  
  
  ({  
    ( { :1, :2, .... :N } ),  
    ( { :1, :2, .... :N } ),  
    ( { :1, :2, .... :N } ),  
    ....  
    ( { N :1, N :2, .... M :N } ),  
  })
```

```
:  
  Spock @ FF 97.jul.25.       (printed 3/16/95)
```

allocate_buffer(3) MudOS v21c2 (5 Sep 1994)

:

allocate_buffer() - (buffer).

:

buffer allocate_buffer(int size);

allocate_buffer(size);

:

size (elements) .

0,

(10000) .

(initialized) 0.

:

bufferp(3), read_buffer(3), write_buffer(3), sizeof(3),
to_int(3)

:

Truilkan

:

Spock @ FF 96.Oct.12.

(printed 3/16/95)

crc32(3) MudOS v21c2 (5 Sep 1994)

:

crc32() -
(cycle redundancy code)

:

int crc32(buffer | string x);

crc32(| x);

:

x CRC-32 .

:

Spock @ FF 97.Jan.27. (printed 3/16/95)

read_buffer(3) MudOS v21c2 (5 Sep 1994)

:

```
read_buffer() - (buffer) ,  
                (string)
```

:

```
string | buffer read_buffer( string | buffer src,  
                             int start, int len );
```

```
read_buffer( src,  
            start, len );
```

:

```
src () , start  
(byte) , len .  
. start len ,  
.
```

```
src , start  
len . .
```

```
''  
(runtime config file) maximum byte transfer  
() .
```

:

```
write_buffer(3), allocate_buffer(3), bufferp(3),  
read_bytes(3), write_bytes(3)
```

:

Truilkan

:

Spock @ FF 97.May.24. (printed 3/16/95)

write_buffer(3) MudOS v21c2 (5 Sep 1994)

```
:
  write_buffer() - (buffer) ,
  .
:
  int write_buffer( string | buffer dest, int start,
    mixed source );

  write_buffer( dest, start,
    source );
:
  dest , source (
  network-byte-order ) ,
  dest start source .

  dest , source start
  . source ,
  network-byte-order .
:
  read_buffer(3), allocate_buffer(3)
:
  Truilkan
:
  Spock @ FF 97.jul.25.       (printed 3/16/95)
```

call_other(3) MudOS v21c2 (5 Sep 1994)

```
:
  call_other() - .
:
  unknown call_other( object ob | object *obs,
    string func | mixed *args, ... );
```

```
  call_other( ob *obs,
    func *args, ... );
```

```
:
  (argument) .
,
. func ob ,
... , func ,
func . call_other() ,
, call_other()
, .
, (element)
(),
.
```

```
call_other() :
    object ob object *obs -> func( ... );
```

```
□:
  call_other( ob, "query", "name" );
  ob->query("name");
```

```
call_other() ,
:
  call_other( ob, ( { "query", "name" } ));
```

```
□:
  users()->quit();
```

```
:
  Spock @ FF 96.Oct.16.      (printed 3/16/95)
```

call_out(3) MudOS v21c2 (5 Sep 1994)

```
:
  call_out() - .
:
  void call_out( string | function fun, int delay,
                mixed arg );

  call_out( fun, delay,
            arg );
:
  this_object() , delay fun.
  arg fun .

, fun write() say(),
this_player() 0. tell_object()
.

driver options.h
THIS_PLAYER_IN_CALL_OUT, .
:
remove_call_out(3), call_out_info(3)
:
Spock @ FF 96.Oct.16.           (printed 3/16/95)
```

call_out_info(3) MudOS v21c2 (5 Sep 1994)

:

call_out_info() - call_out() .

:

mixed *call_out_info(void);

:

call_out() .

, (element):

(object), (function), (the delay
to go), (the optional argument).

:

call_out(3), remove_call_out(3)

:

Spock @ FF 96.Oct.16.

(printed 3/16/95)

: `call_stack()` .

:
`array call_stack(int arg)`

:

`arg = 0, ,`
`()`.

`arg = 1, .`

`arg = 2, .`

`arg = 3, origin()` .

See also:

`previous_object`, `origin`

:

`by (Find@tx)`

catch(3) MudOS v21c2 (5 Sep 1994)

:

catch() - .

:

mixed catch(mixed expr);

catch(expr);

:

expr . 0 ,
, * .

throw() . catch()

, (compiler)

.

catch() , . catch()

(consistency) .

:

error(3), throw(3), error_handler(4)

:

Spock @ FF 96.Oct.24.

(printed 3/16/95)

find_call_out MudOS v21c2 (5 Sep 1994)

:

 find_call_out() -
 (call out)

:

int find_call_out(string func);

 find_call_out(func);

:

 func (call out),
 . -1.

:

call_out(3), remove_call_out(3), set_heart_beat(3)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

origin(3) MudOS v21c2 (5 Sep 1994)

:

origin() - .

:

int origin(void);

origin();

:

, .

:

1 (driver) (heart_beats,)

2 (local function call)

4 call_other()

8 simul_efun , simul_efun

16 call_out()

32 (efun) (sort_array,)

:

previous_object(3), /include/origin.h

:

Spock @ FF 97.Apr.24. (printed 3/16/95)

previous_object(3) MudOS v21c2 (5 Sep 1994)

```
:
    previous_object() -
        ().
:
    mixed previous_object( int | void );

    previous_object( );
:
    .,
    (local function) previous_object()
    , previous_object() .
    .,
    previous_object(0) previous_object(),
    previous_object(1) previous object
    previous_object(), . previous_object(-1)
    previous object .
:
    call_other(3), call_out(3), origin(3)
:
    Spock @ FF 97.Apr.24. (printed 3/16/95)
```

remove_call_out(3)MudOS v21c2 (5 Sep 1994)

```
:
remove_call_out() - (call_out).
:
int remove_call_out( string fun );

remove_call_out( fun );
:
fun.
. fun
, -1.
:
call_out(3), call_out_info(3).
:
Spock @ FF 97.May.27. (printed 3/16/95)
```

generate_source(3) MudOS v21c2 (5 Sep 1994)

:

generate_source() - C

:

void generate_source(string file,
void | string out_file);

generate_source(file,
out_file);

:

generate_source() LPC -> C ,

.,
SAVE_BINARIES .

:

valid_asm(4), valid_compile_to_c(4)

:

Spock @ FF 97.Feb.13. (printed 3/16/95)

db_affected()

db_affected()

```
int db_affected(int handle)
db_affected( handle)
```

handle

INSERTUPDATE
DELETE

by (Find@tx)

db_close()

db_close

```
int db_close(int handle)
db_close( handle)
```

handle

0 1

by (Find@tx)

db_commit()

db_commit()

```
int db_commit(int handle)
db_commit( handle)
```

MySQL commit

by (Find@tx)

db_connect()

db_connect()

```
mixed db_connect(string host, string database,  
                string user, int type|void)  
db_connect( host, database,  
            user, type|)
```

```
host  
"127.0.0.1" "localhost"
```

```
database
```

```
user
```

```
type  
driver
```

```
    #define USE_MYSQL 1  
    #undef USE_MYSQL 2  
1 2
```

```
DEFAULT_DB
```

```
1 0
```

by (Find@tx)

db_exec()

db_exec() SQL

mixed db_exec(int handle, string sql)
db_exec(handle, sql)

handle
sql

by (Find@tx)

db_fetch()

db_fetch() db_exec

```
array db_fetch(int db_handle, int row)
db_fetch( handle, row)
```

```
db_exec
handle
row db_exec
```

by (Find@tx)

db_rollback()

db_rollback()

```
int db_rollback(int handle)
db_rollback( handle)
```

MySQL rollback

by (Find@tx)

db_status()

db_status()

string db_status()

db_status()

mysql

by (Find@tx)

cp(3) MudOS v21c2 (5 Sep 1994)

:

cp() -

:

int cp(string src, string dst);

cp(src, dst);

:

src dst.

:

1, .

:

rm(3), rmdir(3), rename(3), link(3)

:

Spock @ FF 97.Jan.27. (printed 3/16/95)

file_name(3) MudOS v21c2 (5 Sep 1994)

:

file_name() - .

:

string file_name(object ob);

file_name(ob);

:

file_name() ob .

, file_name()

, #

, ,

0 , .

.

ob, ob this_object().

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

file_size(3) MudOS v21c2 (5 Sep 1994)

:

file_size() - .

:

int file_size(string file);

file_size(file);

:

file_size() file . -1 file

, . -2

file .

:

stat(3), get_dir(3)

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

get_dir(3) MudOS v21c2 (5 Sep 1994)

:

get_dir() - (filesystem
directory) .

:

mixed *get_dir(string dir, int default: 0);

*get_dir(dir, : 0);

:

dir (* ?
(wildcards)),
(array of strings) . dir (/ , : "/u/", "/adm/"),
.

-1 , get_dir
(array of subarrays) , :

({ filename, size_of_file, last_time_file_touched })

({ , , })

,
, 1970 1 1 . (time(3)) . file_size(3)
; (bytes) ,
-2 , .

:

file_size(3), stat(3), time(3)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

link(3) MudOS v21c2 (5 Sep 1994)

:

link() -

:

void link(string original, string reference);

link(original, reference);

:

reference original . link()
(master object) valid_link(original,
reference). valid_link() 0, link()
. valid_link() 1, rename()
(argument) , . rename()
, valid_link() 1, link() .

: link() (hard link) ,
(symbolic link).

:

rm(3), rmdir(3), rename(3), mkdir(3), cp(3)

:

Spock @ FF 97.Feb.18. (printed 3/16/95)

mkdir(3) MudOS v21c2 (5 Sep 1994)

:

mkdir() - .

:

int mkdir(string directory);

mkdir(directory);

:

. 1, 0.

:

rm(3), rmdir(3), link(3)

:

Spock @ FF 97.Apr.15. (printed 3/16/95)

read_bytes(3) MudOS v21c2 (5 Sep 1994)

:

read_bytes() -
 (byte).

:

string read_bytes(string path, int start, int length);

 read_bytes(path, start, length);

:

 path , start
 length ..
 , start + length ,
 read_bytes() . ,

.

:

read_file(3), write_bytes(3)

:

Spock @ FF 97.May.24. (printed 3/16/95)

read_file(3) MudOS v21c2 (5 Sep 1994)

:

 read_file() - .

:

 string read_file(string file, int start_line,
 int number_of_lines);

 read_file(file, start_line,
 number_of_lines);

:

 .

 . file ,

 .

 start_line .

 , 0.

:

 write_file(3), read_buffer(3)

:

 Spock @ FF 97.May.24. (printed 3/16/95)

rename(3) MudOS v21c2 (5 Sep 1994)

:

 rename() - .

:

 int rename(string src, string dst);

 rename(src, dst);

:

 src dst.

:

 0. .

:

 rm(3), rmdir(3), cp(3), link(3)

:

 Spock @ FF 97.May.27. (printed 3/16/95)

rm(3) MudOS v21c2 (5 Sep 1994)

:

rm() - .

:

int rm(string file);

rm(file);

:

file . 0, 1.

:

mkdir(3), rmdir(3), link(3)

:

Spock @ FF 97.Jun.2. (printed 3/16/95)

rmdir(3) MudOS v21c2 (5 Sep 1994)

:

rmdir() - .

:

int rmdir(string dir);

rmdir(dir);

:

dir .

:

(nonzero), 0.

:

rm(3), mkdir(3), link(3)

:

Spock @ FF 97.Jun.2. (printed 3/16/95)

stat(3) MudOS v21c2 (5 Sep 1994)

:

stat() - .

:

mixed stat(string str, int default: 0);

stat(str, : 0);

:

str (), stat()

..

:

({ file_size, last_time_file_touched, time_object_loaded })

({ , , time_object_loaded })

str , -1 , stat()

get_dir(3) .

:

get_dir(3), file_size(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

write_bytes(3) MudOS v21c2 (5 Sep 1994)

:

write_bytes() - .

:

int write_bytes(string path, int start,
 string series);

write_bytes(path, start,
 series);

:

write_bytes() , path start
. 0, 1.

:

write_file(3), read_bytes(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

write_file(3) MudOS v21c2 (5 Sep 1994)

:

write_file() - appends a string to a file

:

int write_file(string file, string str, int flag);

write_file(file, str, flag);

:

str file . 1, 0.

flag 1, write_file() (overwrite) file

str, str.

:

read_file(3), write_buffer(3), file_size(3)

:

Spock @ FF 97.Jul.25. (printed 3/16/95)

acos (3) MudOS v21c2 (5 Sep 1994)

:

acos() - (float)
(arccosine).

:

float acos(float f);

acos(f);

:

f , f (radians).

:

asin(3), atan(3), cos(3), sin(3), tan(3)

:

Spock @ FF 96.Oct.11. (printed 3/16/95)

asin(3) MudOS v21c2 (5 Sep 1994)

:

asin() - (float) (arcsine).

:

float asin(float f);

asin(f);

:

f , f (radians).

:

acos(3), atan(3), cos(3), sin(3), tan(3)

:

Spock @ FF 96.Oct.15. (printed 3/16/95)

atan(3) MudOS v21c2 (5 Sep 1994)

:

atan() - (tangent).

:

float atan(float f);

atan(f);

:

f , f (radians).

:

acos(3), asin(3), cos(3), sin(3), tan(3)

:

Spock @ FF 96.Oct.15. (printed 3/16/95)

ceil(3) MudOS v21c2 (5 Sep 1994)

:

 ceil() - .

:

 float ceil(float f);

 ceil(f);

:

 f f ,

 f .

:

 floor(3), to_int(3), to_float(3)

:

 Spock @ FF 96.Oct.24. (printed 3/16/95)

cos(3) MudOS v21c2 (5 Sep 1994)

:

cos() - (cosine)

:

float cos(float f);

cos(f);

:

f, f (radians) .

:

acos(3), asin(3), atan(3), sin(3), tan(3)

:

Spock @ FF 97.Jan.27. (printed 3/16/95)

exp(3) MudOS v21c2 (5 Sep 1994)

:

exp() - , e
 .

:

float exp(float f);

exp(f);

:

exp() e^f .

:

log(3), pow(3), sqrt(3)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

floor(3) MudOS v21c2 (5 Sep 1994)

:

 floor() - ,

 ,

 .

:

 float floor(float f);

 floor(f);

:

 f, f .

:

 ceil(3), to_int(3), to_float(3)

:

 Spock @ FF 97.Feb.12. (printed 3/16/95)

log(3) MudOS v21c2 (5 Sep 1994)

:

 log() -

:

 float log(float f);

 log(f);

:

 f . f .

:

 exp(3), pow(3), sqrt(3)

:

 Spock @ FF 97.Feb.18.

 (printed 3/16/95)

pow(3) MudOS v21c2 (5 Sep 1994)

:

pow() - (float) .

:

float pow(float x, float y);

pow(x, y);

:

pow() x y . x 0.0, y .
x , y .

:

exp(3), log(3), sqrt(3)

:

Spock @ FF 97.Apr.24. (printed 3/16/95)

sin(3) MudOS v21c2 (5 Sep 1994)

:

sin() - (sine).

:

float sin(float f);

sin(f);

:

. f (radians).

:

acos(3), asin(3), atan(3), cos(3), tan(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

sqrt(3) MudOS v21c2 (5 Sep 1994)

:

sqrt() - (square root).

:

float sqrt(float f);

sqrt(f);

:

sqrt() f . f .

:

exp(3), log(3), pow(3)

:

Spock @ FF 97.jul.23. (printed 3/16/95)

tan(3) MudOS v21c2 (5 Sep 1994)

:

tan() - (tangent)

:

float tan(float f);

tan(f);

:

f , f (radians).

:

acos(3), asin(3), atan(3), cos(3), sin(3)

:

Spock @ FF 97.Jul.24. (printed 3/16/95)

to_int(3) MudOS v21c2 (5 Sep 1994)

:

to_int - (buffer) .

:

int to_int(float | buffer x);

to_int(x);

:

x , to_int() x

. x , to_int()

(network-byte-order).

:

to_float(3), read_buffer(3), sprintf(3), sscanf(3)

:

Spock @ FF 97.Jul.25. (printed 3/16/95)

apply(3) MudOS v21c2 (5 Sep 1994)

:

apply() - (function pointer).

:

mixed apply(mixed f, mixed *args)

apply(f, *args)

:

f, f args f
(argument).

□:

apply(f, ({ 1, 2, 3 }));
evaluate(f, 1, 2, 3); .

:

Spock @ FF 96.Oct.14. (printed 3/16/95)

bind(3) MudOS v21c2 (5 Sep 1994)

```
:
  bind() - (function pointer)
      .
:
  function bind( function f, object ob )

  bind( f, ob )
:
  f , ob ,
  f . f f
  (emulated function, efun)
  this_object
  , bind() .

:

void make_living(object ob) {
    function f;

    f = bind( (: enable_commands :), ob );

    evaluate(f);
}

, ob
enable_commands() . !!
, bind()
. bind() ,
(master apply) valid_bind()
bind() . bind() ,
valid_bind() 1 , 0 .

:
  Spock @ FF 96.Oct.16.                   (printed 3/16/95)
```

evaluate(3) MudOS v21c2 (5 Sep 1994)

:
 evaluate() - (function pointer)

:
 mixed evaluate(mixed f, ...)

 evaluate(f, ...)

:
 f , (...
) f f. f ,
 evaluate(f, ...) f .

:
 Spock @ FF 97.Feb.12. (printed 3/16/95)

function_owner()

function_owner()

object function_owner(function f)
function_owner(f)

f

MudOS PACKAGE_CONTRIB

bind

by (Find@tx)

process_value(3) MudOS v21c2 (5 Sep 1994)

```
:
: process_value() - .
:
: mixed process_value( string calldescription );
: process_value( calldescription );
:
: ,:
:
: "[:][ | 1 | 2.... | N]"
:
: .
: , []
: ..
:
: process_string(3)
:
: mud (mudlib) , .
: process_string() ,
: (effuserid, euid) 0 .
:
: Spock @ FF 97.Apr.25. (printed 3/16/95)
```

```
:
filter() -
:
mixed filter(mixed x, string fun, object ob, mixed extra, ...);
filter( x, fun, ob, extra, ...);

mixed filter(mixed x, function f, mixed extra, ...);
filter( x, f, extra, ...);
:
(ob, fun) (: call_other, ob, fun :)
f
x f
array mapping x mapping
key value extra
x
filter(arr, fun, 2, 3) fun(arr[0],2,3)
    fun(arr[1],2,3) arr

:
filter_array() filter_mapping()
:
(Find)
```

map(3)

MudOS v21c2

(5 Sep 1994)

:

map() - .

:

mapping map(mapping | mixed* | string x, string fun,
object ob, mixed extra, ...);

mapping map(mapping | mixed* | string x, function f,
mixed extra, ...);

map(* x, fun,
ob, extra, ...);

map(* x, f,
extra, ...);

:

, map()
map_mapping() . , map()
map_array() . , map()
(character) ,

.

:

filter_array(3), sort_array(3), map_array(3),
map_mapping(3)

:

Spock @ FF 97.Feb.18.

(printed 3/16/95)

restore_variable(3) MudOS v21c2 (5 Sep 1994)

:

restore_variable() - .

:

mixed restore_variable(string value);

restore_variable(value);

:

. save_object()
restore_object() .

:

restore_object(3)

:

Spock @ FF 97.Jun.2. (printed 3/16/95)

save_variable(3) MudOS v21c2 (5 Sep 1994)

:

save_variable() - (string).

:

string save_variable(mixed var);

save_variable(var);

:

.
save/restore_object .

:

save_object(3)

:

Spock @ FF 97.Jul.4. (printed 3/16/95)

sizeof(3) MudOS v21c2 (5 Sep 1994)

:

sizeof() - (array) (mapping)
 (buffer) (string)

.

:

int sizeof(mixed var);

sizeof(var);

:

var , var

. var , 0.

:

allocate(3), allocate_mapping(3), strlen(3)

:

Spock @ FF 97. Jul.23.

(printed 3/16/95)

store_variable()

store_variable()

```
void store_variable(string, mixed);  
store_variable( , )
```

this_object()

MudOS PACKAGE_CONTRIB

restore_variable,
fetch_variable,
save_object

by (Find@tx)

typeof(3) MudOS v21c2 (5 Sep 1994)

:

typeof() - (expression) (type).

:

int typeof(mixed var);

typeof(var);

:

. :

INT 2

STRING 4

ARRAY 8

OBJECT 16

MAPPING 32

FUNCTION 64

FLOAT 128

BUFFER 256

:

allocate(3), allocate_mapping(3), strlen(3)

:

Spock @ FF 97.Jul.25. (printed 3/16/95)

add_action(3) MudOS v21c2 (5 Sep 1994)

```
:
    add_action() - (local function)
                    (command verb).
:
void add_action( string | function fun, string | string
                *cmd, int flag );

    add_action( fun,
                *cmd, flag );
:
    ,
    (local function) fun. (argument),
    ., 0,
    1.

    ,
    . query_verb() .

    ,,
    .

    add_action() init() .
:
    .

    1 , (leading
characters) ,
    (entire verb) query_verb() .
    2 ,, query_verb()
    (characters following ).
:
query_verb(3), remove_action(3), init(4)
:
Spock @ FF 96.Oct.11.      (printed 3/16/95)
```

command(3) MudOS v21c2 (5 Sep 1994)

```
:
  command() - , .
:
  int command( string str, object ob );

  command( str, ob );
:
  ob str . ob ,
  this_object(). , □
  MUD ,
  . , 0
  . , . LPC
  (evaluation cost).
  , ,
  (scale) (subjective)
  (unreliable) .
:
  add_action(3), enable_commands(3)
:
  Spock @ FF 97.Jan.27.      (printed 3/16/95)
```

commands(3) MudOS v21c2 (5 Sep 1994)

```
:
  commands() -
:
  mixed *commands( void );

  *commands( );
:
  (array), this_object()
  (action) . (
  add_action() ); (flags)
  ( add_action() , 0 );
.
  (function) ( [function pointer]
  " ").
:
  add_action(3), enable_commands(3), disable_commands(3)
:
  Spock @ FF 97.Jan.27. (printed 3/16/95)
```

disable_commands(3) MudOS v21c2 (5 Sep 1994)

```
:
  disable_commands() - (living)
    (non-living)
:
  int disable_commands( void );

  disable_commands( );
:
  (non-living).
, :

  add_actions .
  livingp (false, 0).
  (interactive),
  (input_to ).

  disable_commands 0 .
:
  enable_commands(3)
:
  Spock @ FF 97.Feb.04. (printed 3/16/95)
```


disable_wizard(3) MudOS v21c2 (5 Sep 1994)

:

disable_wizard() - .

:

void disable_wizard(void);

disable_wizard();

:

enable_wizard() .

.

:

enable_wizard(3), wizardp(3)

:

Spock @ FF 97.Feb.04.

(printed 3/16/95)

ed(3) MudOS v21c2 (5 Sep 1994)

:

ed() - .

:

```
void ed( string file, string exit_fn, int restricted );
void ed( string file, string write_fn, string exit_fn,
        int restricted );
```

```
ed( file, exit_fn, restricted );
ed( file, write_fn, exit_fn,
    restricted );
```

:

__OLD_ED__ .

.

. UNIX ed .
, h .

write_fn mudlib
. , MUD (driver)
write_fn . , ,
flag 0. (true,
) , , ,
, flag .
:

```
int write_fn(string fname, int flag)
```

, MUD (driver) exit_fn
. mudlib .
:

```
void exit_fn()
```

restricted .

: , .

restricted , .

:

regexp(3), valid_read(4), valid_write(4),
get_save_file_name(4)

:

ed_cmd(3) MudOS v21c2 (5 Sep 1994)

:

ed_cmd() - ed (session)

.

:

string ed_cmd(string cmd)

ed_cmd(cmd)

:

__OLD_ED__ (define) .

cmd ed (session) ,

.

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

ed_start(3) MudOS v21c2 (5 Sep 1994)

:

ed_start() - ed .

:

string ed_start(string file | void,
 int restricted | void)

ed_start(file ,
 restricted)

:

__OLD_ED__ (define) .

,
file. ed
. ed , ed_cmd() ed
.

restricted 1 ,

.

ed .

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

enable_commands(3) MudOS v21c2 (5 Sep 1994)

```
:
enable_commands() - (player) .
:
void enable_commands( void );

enable_commands( );
:
enable_commands() this_object() (living)
, add_action() (
command() ) . enable_commands() , MUD
(driver) catch_tell() .
, ( say() )
, catch_tell() .

:
create() enable_commands()
.
:
this_object(3), living(3), add_action(3), command(3),
catch_tell(4), say(3), create(4)
:
Spock @ FF 97.Feb.12. (printed 3/16/95)
```

enable_wizard(3) MudOS v21c2 (5 Sep 1994)

:

enable_wizard() - .

:

void enable_wizard(void);

enable_wizard();

:

enable_wizard() (interactive) ,
wizardp() (true).

enable_wizard() :

1. MUD RESTRICTED_ED ,
ed (restricted modes).

2. .

3. trace(3) traceprefix(3) .

:

disable_wizard(3), wizardp(3)

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

exec(3) MudOS v21c2 (5 Sep 1994)

:

exec() - (interactive) (player)
 (connection) .

:

int exec(object to, object from);

exec(to, from);

:

(link)

. , exec(to, from)

, interactive(to) 1, interactive(from)

0. from to .

, MUD

.

(simulated emulated function, simul_efun)

, valid_override(4)

. (efun::exec())

exec() 1, 0.

:

interactive(3), valid_override(4)

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

find_player(3) MudOS v21c2 (5 Sep 1994)

:

find_player() -

:

object find_player(string str);

find_player(str);

:

find_living() , (interactive)

.

:

lower_case(3), find_living(3), livings(3), users(3),
set_living_name(3)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

get_char(3) MudOS v21c2 (5 Sep 1994)

```
:
  get_char - .
:
  varargs void get_char( string | function fun,
    int flag, ... );

  get_char( fun,
    flag, ... );
:
  fun, fun
  . (driver) (parse) .

  get_char (non-blocking) ,
  get_char
  . get_char .
  , fun .

  get_char() ,
  .

  flag (non-zero),
  (echo) ,
  ().

  fun ,
  () . flag
  fun .
:
  get_char MudOS 0.9
  . (telnet negotiation)
  (: )
  , get_char .
  , mudlib ,
  get_char . ( get_char NeXT
  . )
:
  call_other(3), call_out(3), input_to(3)
```

```
:
  Spock @ FF 97.Feb.14.           (printed 3/16/95)
```

heart_beat_info

heart_beat_info()

object array heart_beat_info()

*object heart_beat_info()

heart_beat_info

COMPAT_32

heart_beats

by (Find@tx)

heart_beats

heart_beats()

object array heart_beats()

*object heart_beats()

heart_beats

PACKAGE_CONTRIB

heart_beat,

set_heart_beat,

query_heart_beat

by (Find@tx)

in_edit(3) MudOS v21c2 (5 Sep 1994)

:

in_edit() - .

:

string in_edit(object default : F_THIS_OBJECT);

in_edit(: F_THIS_OBJECT);

:

,

., 0.

:

ed(3), in_input(3)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

in_input(3) MudOS v21c2 (5 Sep 1994)

:

in_input() - input_to

:

int in_input(object default : F_THIS_OBJECT);

in_input(: F_THIS_OBJECT);

:

input_to get_char ,
1.

:

get_char(3), input_to(3)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

input_to(3) MudOS v21c2 (5 Sep 1994)

```
:
input_to() -
:
varargs void input_to( string | function fun,
                      int flag, ... );

input_to( fun,
          flag, ... );
:
fun .
(driver) (parse).

, input_to , input_to
.
input_to . ,
fun.

input_to() ,
.

flag , (echo)
, (snoop) (
).

fun
(). flag fun
.....
:
call_other(3), call_out(3), get_char(3)
:
Spock @ FF 97.Feb.14.           (printed 3/16/95)
```

interactive(3) MudOS v21c2 (5 Sep 1994)

:

interactive() -
(interactive)

:

int interactive(object ob);

interactive(ob);

:

ob , .
(link dead), 0.

:

query_ip_number(3), query_ip_name(3), enable_commands(3)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

message(3) MudOS v21c2 (5 Sep 1994)

```
:
  message() - (living) .
:
  void message( mixed class, string message, mixed target,
               mixed exclude );

  message( class, message, target,
           exclude );
:
  message() ( exclude )
  receive_message( class, message ) .
.

  class , .
  combat, shout, emergency .

  message .

  target ,
  (pointer). (non-living) ,
.

  exclude ,
  (array).
:
  say(3), write(3), shout(3), tell_object(3), tell_room(3)
:
  Spock @ FF 97.Apr.15.           (printed 3/16/95)
```


notify_fail(3) MudOS v21c2 (5 Sep 1994)

```
:
  notify_fail() - .
:
  int notify_fail( string | function str );

  notify_fail( str );
:
  str : ?
  add_action() 0 , str
  . notify_fail()
  , .
  write() , 1.
  ( ? write() )
  1, .

  , .
  , .
  this_player(), write().

  notify_fail() , .

  ?.
:
  notify_fail() 0.
:
  Spock @ FF 97.Apr.24.      (printed 3/16/95)
```

parse_command() - (pattern)

```
int parse_command( string command, object env|object *oblist,  
                  string pattern, mixed arg, ... );
```

```
parse_command( command, env| *oblist,  
              pattern, arg, ... );
```

parse_command() sscanf(3)
sscanf(3)
(reference)(efun)
sscanf(3)parse_command()

'command' parse_command() 1

'env' 'oblist'
deep_inventory

```
parse_command(cmd, environment(), pattern, arg)
```

```
parse_command( cmd, ({ environment() }) +  
              deep_inventory(environment()), pattern, arg)
```

```
" 'get' / 'take' %i "
```

'word'	(text)
[word]	
/	(marker)
%o	(item),
%l	(living object)
%s	
%w	(word)
%p	(list) ()
%i	
%d	0- tx(0-99)

printf(3) MudOS v21c2 (5 Sep 1994)

:
printf, sprintf - .
:
void printf(string format, ...);
string sprintf(string format, ...);

printf(format, ...);
sprintf(format, ...);
:
LPC (s)printf() , Lynscar
(Sean A Reith) .

(modifier):

" " .

"+" + .

"-" (field) .
: (s)printf() ,

,

.

C

.

"|" .

"=" ,
(column mode) . ,

· ,

(wrap) .

"#" . ,
(\n) .

.

n . *
. n 0 ,
(zeros) .
n 0 ,

query_ed_mode(3) MudOS v21c2 (5 Sep 1994)

:

query_ed_mode() - (ed) .

:

int query_ed_mode()

query_ed_mode()

:

(ed) . query_ed_mode()

:

0 - ed (':',) .

-1 - ed

-2 - ed more .

>0 - , .

:

Spock @ FF 97.Apr.30.

(printed 3/16/95)

query_host_name(3) MudOS v21c2 (5 Sep 1994)

:

query_host_name() - (host name)

:

string query_host_name(void);

query_host_name();

:

query_host_name().

:

, .

, .

:

resolve(3), socket_address(3), query_ip_name(3),
query_ip_number(3)

:

Spock @ FF 97.Apr.30. (printed 3/16/95)

query_idle(3) MudOS v21c2 (5 Sep 1994)

:

query_idle() - (interactive)
 (idle) .

:

int query_idle(object ob);

query_idle(ob);

:

(interactive) (idle) .

:

in_edit(3), in_input(3)

:

Spock @ FF 97.May.1. (printed 3/16/95)

query_ip_name(3) MudOS v21c2 (5 Sep 1994)

:

query_ip_name() - ip .

:

string query_ip_name(object ob);

query_ip_name(ob);

:

ob IP . addr_server
. ip , ip .

:

query_ip_number(3), query_host_name(3), resolve(3),
socket_address(3)

:

Spock @ FF 97.May.1. (printed 3/16/95)

query_ip_number(3) MudOS v21c2 (5 Sep 1994)

:

query_ip_number() - ip .

:

string query_ip_number(object ob);

query_ip_number(ob);

:

ob ip (aaa.bbb.ccc.ddd).

:

query_ip_name(3), query_host_name(3), resolve(3),
socket_address(3)

:

Spock @ FF 97.May.1. (printed 3/16/95)


```
query_ip_port()
```

```
query_ip_port()
```

```
int query_ip_port(object | void);  
query_ip_port( | )
```

```
MUD  
this_player()
```

```
MudOS PACKAGE_CONTRIB
```

```
query_ip_name,  
query_host_name,  
resolve,  
socket_address
```

```
by (Find@tx)
```

query_notify_fail()

query_notify_fail()
notify_fail()

mixed query_notify_fail(void);
query_notify_fail()

this_player() notify_fail

this_player()
notify_fail()

MudOS PACKAGE_CONTRIB
NO_ADD_ACTION

add_action,
notify_fail

by (Find@tx)

query_snoop(3) MudOS v21c2 (5 Sep 1994)

:

query_snoop() - (interactive) .

:

object query_snoop(object ob);

query_snoop(ob);

:

ob , .
, 0.

:

snoop(3), query_snooping(3)

:

Spock @ FF 97.May.1. (printed 3/16/95)

query_snooping(3) MudOS v21c2 (5 Sep 1994)

:

query_snooping() - (snoop) .

:

object query_snooping(object ob);

query_snooping(ob);

:

(interactive) ob ,
. ob , 0.

:

snoop(3), query_snoop(3)

:

Spock @ FF 97.May.1 (printed 3/16/95)

query_verb(3) MudOS v21c2 (5 Sep 1994)

:

query_verb() - .

:

string query_verb(void);

query_verb();

:

.,

0.:

.,

:

add_action(3)

:

Spock @ FF 97.May.2. (printed 3/16/95)

receive(3) MudOS v21c2 (5 Sep 1994)

:

 receive() - .

:

 int receive(string message);

 receive(message);

:

 (fun) mud (driver)

 add_message() .

 . 1.

 0. receive() catch_tell(4)

 receive_message(4) .

:

 catch_tell(4), receive_message(4), message(3)

:

 Spock @ FF 97.May.24.

 (printed 3/16/95)

remove_action(3) MudOS v21c2 (5 Sep 1994)

```
:
    remove_action - (local function)
                    (command verb)
:
    int remove_action( string fun, string cmd );

    remove_action( fun, cmd );
:
    remove_action(3) .
    , remove_action() add_action(3)
    add_verb(3) . ,
    remove_action() .
:
    remove_action() :

    1 .

    0 .
:
    add_action(3), query_verb(3), init(4)
:
    Spock @ FF 97.May.27. (printed 3/16/95)
```

```
remove_interactive()
```

```
remove_interactive()
```

```
int remove_interactive(object);  
remove_interactive();
```

```
1 0
```

```
MudOS PACKAGE_CONTRIB
```

```
by (Find@tx)
```


resolve(3) MudOS v21c2 (5 Sep 1994)

```
:
  resolve() - (internet address)
             (domain name), ..
:
  int resolve( string address, string callback_func );

  resolve( address, callback_func );
:
  resolve() "140.128.136.11" address
           "bbs.csmc.edu.tw" .
           "bbs.csmc.edu.tw" address
           "140.128.136.11" . ,
           callback_func. callback_func :

  void callback(string address, string resolved, int key);

  callback( address, resolved, key );

  key resolve() . address .
  , 0.
:
  query_host_name(3), socket_address(3), query_ip_name(3),
  query_ip_number(3)
:
  Spock @ FF 97.Jun.2.       (printed 3/16/95)
```

say(3) MudOS v21c2 (5 Sep 1994)

:

say() - .

:

varargs void say(string str, object obj);

say(str, obj);

:

,
. this_player(),
this_player() == 0 this_object().

. obj,
obj. obj , (an array
of objects) , .

:

message(3), write(3), shout(3), tell_object(3), tell_room(3)

:

Spock @ FF 97.Jul.4. (printed 3/16/95)

set_this_player(3) MudOS v21c2 (5 Sep 1994)

```
:
void set_this_player( object who );

set_this_player( who );
:
set_this_player() who this_player().
(efun) __NO_ADD_ACTION__
mudlib __NO_ADD_ACTION__
.

who , this_player() .
:
this_player(3)
:
Spock @ FF 97.Jul.21. (printed 3/16/95)
```

shout(3) MudOS v21c2 (5 Sep 1994)

:

shout() - (living) .

:

void shout(string str);

shout(str);

:

this_player() , str.

:

message(3), write(3), tell_object(3), tell_room(3),
say(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

snoop(3) MudOS v21c2 (5 Sep 1994)

:

snoop() - (interactive user).

:

varargs object snoop(object snooper, object snoopee);

snoop(snooper, snoopee);

:

, snooper snoopee.

, snooper .

simul_efun snoop() .

, snoop() snoopee. ,

snooper. 0 .

:

query_snoop(3), query_snooping(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

this_interactive(3) MudOS v21c2 (5 Sep 1994)

:

 this_interactive - .

:

 object this_interactive();

 this_interactive();

:

 . this_interactive()
 this_player(), this_player()
 enable_commands() command() .

:

 this_object(3), this_player()

:

 Spock @ FF 97.Jul.24. (printed 3/16/95)

this_player(3) MudOS v21c2 (5 Sep 1994)

:

object this_player(int flag);

 this_player(flag);

:

 (player) . ,
 this_player(),
this_object() . this_player(1) ,
 (interactive) .
this_player(1) this_player()
.: (admin) command()

.

:

this_object(3)

:

Spock @ FF 97.Jul.25. (printed 3/16/95)

this_user()

this_user()

object this_user(int)
this_user()

this_user()
this_object() this_user
this_user(1)
this_user(1)
this_user()
command()

this_object

by (Find@tx)

userp(3) MudOS v21c2 (5 Sep 1994)

:

userp() - (interactive).

:

int userp(object);

userp();

:

arg , 1.

:

interactive(3), users(3), living(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

users(3) MudOS v21c2 (5 Sep 1994)

:

users() - (interactive)

.

:

object *users(void);

*users();

:

, .

:

livings(3), children(3), objects(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

wizardp(3) MudOS v21c2 (5 Sep 1994)

:

wizardp() - enable_wizard()

:

int wizardp(object);

wizardp();

:

arg enable_wizard(), wizardp() 1.

:

disable_wizard(3), enable_wizard(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

write(3) MusOS v21c2 (5 Sep 1994)

:

write() - .

:

void write(mixed str);

write(str);

:

str . str ,

.

:

message(3), tell_object(3), tell_room(3), shout(3), say(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

cache_stats(3) MudOS v21c2 (5 Sep 1994)

:

cache_stats() - (driver) Mud
(mudlib) .

:

void cache_stats(void);

cache_stats(void);

:

, options.h
CACHE_STATS . (emulated function
, efun) call_other() (cache)

.

:

opcprof(3), mud_status(3)

:

Spock @ FF 96.Oct.16. (printed 3/16/95)

debug_info(3) MudOS v21c2 (5 Sep 1994)

:

debug_info() - (debug)

:

mixed debug_info(int operation, ...);
mixed debug_info(0, object ob);
mixed debug_info(1, object ob);

debug_info(operation, ...);
debug_info(0, ob);
debug_info(1, ob);

:

debug_info() , MudOS

..

(operation) .

(0 1) ,

MudOS □ (various fields of the MudOS
object structure).

LPC :

:

/* di0.c */

```
create() {  
    debug_info(0, this_object());  
}
```

:

```
O_HEART_BEAT      : FALSE  
O_IS_WIZARD       : FALSE  
O_ENABLE_COMMANDS : FALSE  
O_CLONE           : FALSE  
O_DESTRUCTED      : FALSE  
O_SWAPPED         : FALSE  
O_ONCE_INTERACTIVE : FALSE  
O_RESET_STATE     : FALSE  
O_WILL_CLEAN_UP   : FALSE  
O_WILL_RESET      : TRUE  
total light : 0  
next_reset : 720300560
```

debugmalloc(3) MudOS v21c2 (5 Sep 1994)

:

debugmalloc() - (malloc'd memory)

.

:

void debugmalloc(string filename, int mask);

debugmalloc(filename, mask);

:

(efun) (driver)

, options.h DEBUGMALLOC

DEBUGMALLOC_EXTENSIONS . debugmalloc()

DMALLOC()

macros. (macro mask bitwise and'd (&) with

the tag, mask & tag)

md.c config.h

:

set_malloc_mask(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

dump_file_descriptors(3) MudOS (5 Sep 1994) dump_file_descriptors(3)

dump_file_descriptors() - MudOS

```
void dump_file_descriptors( void );
```

```
dump_file_descriptors( );
```

MudOS

UN*X

fstat() stat

Sequent DYNIX/ptx Lambda Realms

Mud

Fd	Device	Number	Inode	Mode	Uid	Gid	Size
0	3	2	10319	c 666	0	3	0
1	79	7	164598	f 644	2862	1	789522
2	79	7	164598	f 644	2862	1	789522
3	40	33b	6925	c 0	2862	1	0
4	40	2a4	6943	c 0	2862	1	0
5	79	7	164599	f 600	2862	1	44784
6	40	2e2	145996	c 0	2862	1	0
7	79	7	164601	f 644	2862	1	506

dump_socket_status(3)

Kenny@Broken.History

97.Jul.26

(printed 3/16/95)

dump_prog(3)

MudOS (5 Sep 1994)

dump_prog(3)

dump_prog() - / LPC

```
void dump_prog( object ob, int flags default: 0, string file
);
```

```
dump_prog( ob, flags : 0, file
);
```

```
dump_prog() obj `file'
`file' "/PROG_DUMP"
```

```
flags 1 - i-code 2 -
```

```
debug_info(3), dumpallobj(3)
```

Kenny@Broken.History

97.Jul.26

(printed 3/16/95)

dump_socket_status()

dump_socket_status() LPC

```
string dump_socket_status();  
dump_socket_status()
```

socket_status

by (Find@tx)

dumpallobj(3) MudOS v21c2 (5 Sep 1994)

:

dumpallobj() - .

:

void dumpallobj(string | void);

dumpallobj();

:

.
, /OBJ_DUMP .
, .

:

mud_status(3), debug_info(3)

:

Spock @ FF 97.Feb.04. (printed 3/16/95)

get_config(3) MudOS v21c2 (5 Sep 1994)

:

get_config() - (driver)
 (config settings)

:

string | int get_config(int);

get_config();

:

(efun) .
runtime_config.h

.

:

/include/runtime_config.h

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

malloc_status(3) MudOS v21c2 (5 Sep 1994)

:

malloc_status() -

:

void malloc_status(void);

malloc_status();

:

. vanilla 3.1.2

malloc . , malloc_status() ,

, options.h

.

:

mud_status(3), dumpallobj(3), memory_info(3)

:

Spock @ FF 97.Feb.18.

(printed 3/16/95)

memory_info(3) MudOS v21c2 (5 Sep 1994)

:

memory_info - mud .

:

varargs int memory_info(object ob);

memory_info(ob);

:

ob, memory_info() ob

., mud .

, mud

mud .

:

debug_info(3), malloc_status(3), mud_status(3)

:

Spock @ FF 97.Apr.15. (printed 3/16/95)

memory_summary

```
memory_summary()
```

```
mapping memory_summary();  
memory_summary();
```

```
memory_summary()
```

```
PRE(  
([  
  : ([  
    :,  
    ...  
  ])  
  ...  
])  
)
```

MudOS PACKAGE_CONTRIB

by (Find@tx)

moncontrol(3) MudOS v21c2 (5 Sep 1994)

:

moncontrol() - (profiling).

:

void moncontrol(int on);

moncontrol(on);

:

on 1, moncontrol() . on
0 , moncontrol() . (driver)

, .

(compile) , ,
moncontrol() .

:

opcprof(3), function_profile(3)

:

Spock @ FF 97.Apr.15. (printed 3/16/95)

mud_status(3) MudOS v21c2 (5 Sep 1994)

:

mud_status() - (driver) mud
(mudlib) .

:

void mud_status(int extra);

mud_status(extra);

:

mud
. extra ,
. vanilla 3.1.2
status status tables .

:

debug_info(3), dumpallobj(3), memory_info(3), uptime(3)

:

Spock @ FF 97.Apr.15. (printed 3/16/95)

opcprof(3) MudOS v21c2 (5 Sep 1994)

:

opcprof() - (efuns) .

:

void opcprof(string | void);

opcprof();

:

(efunction)

(eoperator) . ,

/OPCPROF.efun /OPCPROF.eoper

· ,

·

:

function_profile(3)

:

Spock @ FF 97.Apr.24.

(printed 3/16/95)

```
:  
  query_bandwide() -
```

```
:  
  float *query_bandwide();
```

```
  query_bandwide();  
:
```

```
/
```

by (Find@tx)

query_load_average(3) MudOS v21c2 (5 Sep 1994)

:

query_load_average() - mud (load
average).

:

string query_load_average(void);

query_load_average();

:

,:
(1) .
(2) .

:

rusage(3)

:

Spock @ FF 97.May.1. (printed 3/16/95)

refs(3) MudOS v21c2 (5 Sep 1994)

:

 refs - .

:

 int refs(mixed data);

 refs(data);

:

 refs() data . data

 , .

:

 children(3), inherit_list(3), deep_inherit_list(3),
 objects(3)

:

 Spock @ FF 97.May.24. (printed 3/16/95)

rusage(3) MudOS v21c2 (5 Sep 1994)

```
:
  rusage() - (system call) getrusage()
  .
:
  mapping rusage( void );

  rusage( );
:
  (efun) getrusage() .
  getrusage() .
  getrusage(), times() .
  utime stime .
  (millisecond).

  rusage() □:

  void
  create()
  {
    mapping info;

    info = rusage();
    write(" = " + info["utime"] + "\n");
    write(" = " + info["stime"] + "\n");
  }

:

  utime, stime, maxrss, ixrss, idrss, isrss, minflt,
  majflt, nswap, inblock, oublock, msgsnd, msgrcv,
  nsignals, nvcsw, nivcsw.

:
  time_expression(3), function_profile(3), time(3), uptime(3)

:
  Spock @ FF 97.Jun.2.      (printed 3/16/95)
```

set_debug_level(3) MudOS v21c2 (5 Sep 1994)

:

set_debug_level() - (driver) debug()
(macro), (debug)

.

:

void set_debug_level(int level);

set_debug_level(level);

:

(emulated function, efun)

-DDEBUG_MACRO . set_debug_macro() mud

, .

debug.h, .

:

set_malloc_mask(3)

:

Spock @ FF 97.Jul.20. (printed 3/16/95)

set_malloc_mask(3) MudOS v21c2 (5 Sep 1994)

:

set_malloc_mask() -
 (the mask controlling
 display of malloc debug info).

:

void set_malloc_mask(int mask);

set_malloc_mask(mask);

:

(efun) mud (driver)
, options.h DEBUGMALLOC DEBUGMALLOC_EXTENSIONS
. (mask)
,.
md.c

:

debugmalloc(3)

:

Spock @ FF 97.Jul.21. (printed 3/16/95)

set_malloc_mask(3) MudOS v21c2 (5 Sep 1994)

:

set_malloc_mask() -
 (the mask controlling
 display of malloc debug info).

:

```
void set_malloc_mask( int mask );
```

```
set_malloc_mask( mask );
```

:

```
(efun) mud (driver)  
, options.h DEBUGMALLOC DEBUGMALLOC_EXTENSIONS  
. (mask)  
,.  
md.c
```

:

```
debugmalloc(3)
```

:

```
Spock @ FF 97.Jul.21. (printed 3/16/95)
```

swap(3) MudOS v21c2 (5 Sep 1994)

```
:  
  swap - (swap) .  
:  
  void swap( object );  
  
  swap( );  
:  
  . swap()  
  . swap() , simul_efun  
  (override) swap() .  
  
:  
  , .
```

time_expression(3) MudOS v21c2 (5 Sep 1994)

```
:  
    time_expression() - (expression)  
    .  
:  
    int time_expression( mixed expr );  
  
    time_expression( expr );  
:  
    expr, (microsecond) expr  
    .,  
    ,.  
:  
    rusage(3), function_profile(3), time(3)  
:  
    Spock @ FF 97.Jul.25. (printed 3/16/95)
```

trace(3) MudOS v21c2 (5 Sep 1994)

:

trace() - (trace flags) .

:

int trace(int traceflags);

trace(traceflags);

:

, , ,

.

(trace bits):

Trace all function calls to lfuns.

()

Trace all calls to "call_other".

(call_other)

Trace all function returns.

()

Print arguments at function calls and return values.

(,)

Print all executed stack machine instructions

(produces a lot of output!)

((!))

Enable trace in heart beat functions.

()

Trace calls to apply.

()

Show object name in tracing.

()

:

traceprefix(3)

:

traceprefix(3) MudOS v21c2 (5 Sep 1994)

:

traceprefix() - .

:

string traceprefix(string prefix);

traceprefix(prefix);

:

(traceprefix) (0),

.

:

trace(3)

:

Spock @ FF 97.Jul.25. (printed 3/16/95)

allocate_mapping(3) MudOS v21c2 (5 Sep 1994)

```
:  
    allocate_mapping() - (pre-allocate)  
                        (mapping).  
:  
    mapping allocate_mapping( int size );  
  
    allocate_mapping( size );  
:  
    size (elements) .
```

```
□:  
    mapping x;  
    int y = 200;  
  
    x = allocate_mapping(y);
```

```
y . ,  
    allocate_mapping (□  
200 ) , ,  
    . 200  
    , allocate_mapping .
```

```
! ,  
x = (□) □ x,  
allocate_mapping().
```

```
: , .
```

```
x = allocate_mapping( 200 ); x = (□);
```

```
:  
    map_delete(3)
```

```
:  
    Spock @ FF 96.Oct.14.            (printed 3/16/95)
```

each(3) MudOS v21c2 (5 Sep 1994)

:

 each() - (mapping)
 (key, value) .

:

 mixed *each(mapping m, int reset);

:

 each() (key, value)
 . each() keys() values()
 . each()
 , (null vector, (0,0)).
 , each()
 .

 each() ,
 . MudOS (single thread)
 , each() . (
 each() ,
 (key, value))

 1, each() .

□:

 mixed *pair;

 while ((pair = each(x)) != ({})) {
 write("key = " + pair[0] + "\n");
 write("value = " + pair[1] + "\n");
 }

:

 keys(3), values(3)

:

 Spock @ FF 97.Feb.7. (printed 3/16/95)

filter_mapping(3) MudOS v21c2

(5 Sep 1994)

:

filter_mapping() - ,

:

mapping filter_mapping(mapping map, string fun,
object ob, mixed extra, ...);

mapping map_mapping(mapping map, function f,
mixed extra, ...);

filter_mapping(map, fun,
ob, extra, ...);

filter_mapping(map, f,
extra, ...);

:

map (keys) ,
map (item) ob->fun() f
. map fun f
, fun f .

:

filter_array(3), sort_array(3), map(3)

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

keys(3) MudOS v21c2 (5 Sep 1994)

:

keys() - (mapping)
 (,) ((key, value))
 (array).

:

mixed *keys(mapping m);

*keys(m);

:

keys() m (,)

.

□:

mapping m;
m = [{"hp" : 35, "sp" : 42, "mass" : 100}];

:

keys(m) == {"hp", "sp", "mass"}

.. values()

.

:

values(3), each(3)

:

Spock @ FF 97.Feb.18. (printed 3/16/95)

map_delete(3) MudOS v21c2 (5 Sep 1994)

```
:
map_delete() -
    (, ) ((key, value)).
:
void map_delete( mapping m, mixed element );

map_delete( m, element );
:
map_delete element
(, ).

:

mapping names;

names = ([]);
names["truilkan"] = "john";
names["wayfarer"] = "erik";
names["jacques"] = "dwayne";

:

map_delete(names,"truilkan");

names :

(["wayfarer" : "erik", "jacques" : "dwayne"])

map_delete( names, "truilkan" ) , key(names)
truilkan ( ("truilkan", *)
truilkan )
:
allocate_mapping(3)
:
Spock @ FF 97.Feb.18.      (printed 3/16/95)
```

map_mapping(3) MudOS v21c2 (5 Sep 1994)

:

map_mapping() -

:

mapping map_mapping(mapping map, string fun,
 object ob, mixed extra, ...);

mapping map_mapping(mapping map, function f,
 mixed extra, ...);

map_mapping(map, fun,
 ob, extra, ...);

map_mapping(map, f,
 extra, ...);

:

ob->fun() f ,

. map

, .

(By Find@TX)

:

filter_array(3), sort_array(3), map(3)

:

Spock @ FF 97.Feb.18. (printed 3/16/95)

match_path(3) MudOS v21c2 (5 Sep 1994)

:

match_path() - (mapping)
(path)

:

mixed match_path(mapping m, string str);

match_path(m, str);

:

match_path() . match_path()
(key) (string) .
(value) . (efun)
. /
, / (wildcard),
(: *).

:

Cygnus

:

Spock @ FF 97.Apr.13. (printed 3/16/95)

unique_mapping(3)MudOS v21c2 (5 Sep 1994)

:

unique_mapping() - ,
(mapping).

:

mapping unique_mapping(mixed *arr, string fun,
object ob, mixed extra, ...);

mapping unique_mapping(mixed *arr, function f,
mixed extra, ...);

unique_mapping(*arr, fun,
ob, extra, ...);

unique_mapping(*arr, f,
extra, ...);

:

:

(member) ,
(key).

:

filter_array(3), sort_array(3), map(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

values(3) MudOS v21c2 (5 Sep 1994)

:

```
values() - ( , )
           ( (keys, values) ) , .
```

:

```
mixed *values( mapping m );
```

```
*values( m );
```

:

```
values() . m ,
( , ) .
```

```
□:
```

```
mapping m;
```

```
m = ([ "hp" : 35, "sp" : 42, "mass" : 100 ] );
```

```
values(m) == ({ 35, 42, 100 })
```

```
, , ,
```

:

```
keys(3), each(3)
```

:

```
Spock @ FF 97.jul.25.      (printed 3/16/95)
```

arrayp(3) MudOS v21c2 (5 Sep 1994)

:

arrayp() - (array).

:

int arrayp(mixed arg);

arrayp(arg);

:

arg , 1.

:

mapp(3), stringp(3), objectp(3), intp(3), bufferp(3),
floatp(3), functionp(3), nullp(3), undefinedp(3),
errorp(3), pointerp(3)

:

Spock @ FF 96.Oct.15. (printed 3/16/95)

bufferp(3) MudOS v21c2 (5 Sep 1994)

:

bufferp() - (buffer).

:

int bufferp(mixed arg);

bufferp(arg);

:

arg 1, 0.

:

mapp(3), stringp(3), pointerp(3), objectp(3), intp(3),
bufferp(3), floatp(3), functionp(3), nullp(3),
undefinedp(3), errorp(3)

:

Spock @ FF 96.Oct.16.

(printed 3/16/95)

copy()

copy()

mixed copy(mixed);
copy()

()

```
mapping a, b = ({ 1 });  
a = b;  
a[0] = 2;  
printf("%O %O\n", a, b);
```

({ 2 }) ({ 2 })

```
mapping a, b = ({ 1 });  
a = copy(b);  
a[0] = 2;  
printf("%O %O\n", a, b);
```

({ 2 }) ({ 1 })

by (Find@tx)

errorp(3) MudOS v21c2 (5 Sep 1994)

:

errorp() - (error code).

:

int errorp(mixed arg);

errorp(arg);

:

arg , errorp() 1 .

(emulated functions, efun),

..:

if (errorp(result = efun_call()))

 printf("error = %d\n", result);

, perror(result)

.

:

nullp(3), undefinedp(3)

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

floatp(3) MudOS v21c2 (5 Sep 1994)

:

floatp() -

:

int floatp(mixed arg);

floatp(arg);

:

arg 1, 0.

:

mapp(3), stringp(3), pointerp(3), objectp(3), intp(3),
bufferp(3), functionp(3), nullp(3), undefinedp(3),
errorp(3)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

functionp(3) MudOS v21c2 (5 Sep 1994)

:
functionp() -
 (function pointer). ,

:
int functionp(mixed arg);

functionp(arg);

:
arg (nonzero),
0.
(function) .

□:

f = (: obj, func :);

,
"include/function.h" .

function pointer type	value
call_other	FP_CALL_OTHER
lfun	FP_LOCAL
efun	FP_EFUN
simul_efun	FP_SIMUL
functional	FP_FUNCTIONAL

, :

() FP_HAS_ARGUMENTS

() FP_OWNER_DESTED

() FP_NOT_BINDABLE

(bit value), .

FP_MASK ,

□:

:

if ((functionp(f) & FP_MASK) == FP_EFUN) ...

intp(3) MudOS v21c2 (5 Sep 1994)

:

intp() - .

:

int intp(mixed arg);

intp(arg);

:

arg 1, 0.

:

mapp(3), stringp(3), pointerp(3), objectp(3),
bufferp(3), floatp(3), functionp(3), nullp(3),
undefinedp(3), errorp(3)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

mapp(3) MudOS v21c2 (5 Sep 1994)

:

mapp() - (mapping).

:

int mapp(mixed arg);

mapp(arg);

:

arg , 1.

:

stringp(3), pointerp(3), objectp(3), intp(3),
bufferp(3), floatp(3) functionp(3), nullp(3),
undefinedp(3), errorp(3)

:

Spock @ FF 97.Mar.14. (printed 3/16/95)

nullp(3) MudOS v21c2 (5 Sep 1994)

:

 nullp() - (null).

:

 int nullp(mixed arg);

 nullp(arg);

:

 arg 1. arg :

 1. arg (initialize).

 2. arg .

 3. arg , .

:

 mapp(3), stringp(3), pointerp(3), objectp(3), intp(3),
 bufferp(3), floatp(3), functionp(3), undefinedp(3),
 errorp(3)

:

 Spock @ FF 97.Apr.24. (printed 3/16/95)

objectp(3) MudOS v21c2 (5 Sep 1994)

:

objectp() - (object).

:

int objectp(mixed arg);

objectp(arg);

:

arg 1.

:

mapp(3), stringp(3), pointerp(3), intp(3), bufferp(3),
floatp(3), functionp(3), nullp(3), undefinedp(3),
errorp(3)

:

Spock @ FF 97.Apr.24. (printed 3/16/95)

pointerp(3) MudOS v21c2 (5 Sep 1994)

:

pointerp() - (array).

:

int pointerp(mixed arg);

pointerp(arg);

:

arg , 1.

:

mapp(3), stringp(3), objectp(3), intp(3), bufferp(3),
floatp(3), functionp(3), nullp(3), undefinedp(3),
errorp(3), arrayp(3)

:

Spock @ FF 97.Apr.24. (printed 3/16/95)

stringp(3) MudOS v21c2 (5 Sep 1994)

:

stringp() - (string).

:

int stringp(mixed arg);

stringp(arg);

:

arg 1.

:

mapp(3), pointerp(3), objectp(3), intp(3), bufferp(3),
floatp(3) functionp(3), nullp(3), undefinedp(3),
errorp(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

undefinedp(3) MudOS v21c2 (5 Sep 1994)

:

undefinedp() - .

:

int undefinedp(mixed arg);

undefinedp(arg);

:

arg , 1. arg

:

(1) call_other .

(arg = call_other(obj, "???");)

(2) .

:

mapp(3), stringp(3), pointerp(3), objectp(3), intp(3),
bufferp(3), floatp(3), functionp(3), nullp(3), errorp(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

author_stats(3) MudOS v21c2 (5 Sep 1994)

```
:
  author_stats() - .
  domain_stats() - .
:
  mapping author_stats( string domain | void );
  mapping domain_stats( string domain | void );

  author_stats( domain void );
  domain_stats( domain void );
:
  author_stats() domain_stats()
  . (argument),
  () ()
  .: (moves),
  (cost), (errors), (heart_beats),
  (worth), (array_size), (objects)
  ..
  (),
  . ()
  (eval_cost). ()
  . (
  ), heartbeat .
  add_worth(3) (
  ).
  .
  .,,
  :

([ domain0 : info0, domain1 : info1, ... ])

info0 :

([ "moves" : moves, "cost" : cost, "errors" : errors,
  "heart_beats" : heart_beats, "worth" : worth,
  "array_size" : array_size, "objects" : objects ])

, info0 .

:
  domain_file(4), author_file(4), set_author(3)
:
```

domain_stats(3) MudOS v21c2 (5 Sep 1994)

```
:
  domain_stats() - .
  author_stats() - .
:
  mapping domain_stats( string domain | void );
  mapping author_stats( string domain | void );

  domain_stats( domain void );
  author_stats( domain void );
:
  author_stats() domain_stats()
  . (argument),
  () ()
  .: (moves),
  (cost), (errors), (heart_beats),
  (worth), (array_size), (objects)
  ..
  (),
  . ()
  (eval_cost). ()
  . (
  ), heartbeat .
  add_worth(3) (
  ).
  .
  .,,
  :

  ([ domain0 : info0, domain1 : info1, ... ])

  info0 :

  ([ "moves" : moves, "cost" : cost, "errors" : errors,
    "heart_beats" : heart_beats, "worth" : worth,
    "array_size" : array_size, "objects" : objects ])

  , info0 .

:
  domain_file(4), author_file(4), set_author(3)
:
```

export_uid(3) MudOS v21c2 (5 Sep 1994)

:

export_uid() - (user id,
 uid).

:

int export_uid(object ob);

export_uid(ob);

:

ob (uid) this_object()
(effective user id, effective uid).
ob 0 .

:

this_object(3), seteuid(3), getuid(3), geteuid(3),
previous_object(3), valid_seteuid(4)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

find_living(3) MudOS v21c2 (5 Sep 1994)

:

find_living() - (id)
 (living)

:

object find_living(string str);

find_living(str);

:

(living) , (id)
str . enable_commands()
. set_living_name()
, (hash table)

.

:

living(3), livings(3), find_player(3), users(3),
enable_commands(3), set_living_name(3)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

geteuid(3) MudOS v21c2 (5 Sep 1994) geteuid(3)

:

geteuid() -
(effective user id, euid)

:

string geteuid(object | function);

geteuid();

:

, geteuid
(euid) . (function
pointer, function),
euid . ,
euid,
(user id, uid) .

:

seteuid(3), getuid(3), functionp(3), export_uid(3),
previous_object(3), this_object(3), valid_seteuid(4)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

getuid(3) MudOS v21c2 (5 Sep 1994)

:

getuid() - (user id, uid)

:

string getuid(object ob);

getuid(ob);

:

. uid
creator_file() .

:

seteuid(3), geteuid(3), export_uid(3), this_object(3),
previous_object(3), creator_file(4), valid_seteuid(4)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

living(3) MudOS v21c2 (5 Sep 1994)

:

living() -

:

int living(object ob);

living(ob);

:

ob (true,)

. (, ob enable_commands())

:

interactive(3), enable_commands(3)

:

Spock @ FF 97.Feb.18. (printed 3/16/95)

livings(3) MudOS v21c2 (5 Sep 1994)

:

livings() - (living)

:

object *livings(void);

*livings();

:

(pointer) .

enable_commands() .

:

enable_commands(3), find_living(3), users(3),
objects(3)

:

Spock @ FF 97.Feb.18. (printed 3/16/95)

query_privs(3) MudOS v21c2 (5 Sep 1994)

:

query_privs() - (privs string).

:

string query_privs(object ob);

query_privs(ob);

:

. (master
object) , privs_file() .
set_privs() .

query_privs() (driver) ,
PRIVS .

:

privs_file(4), set_privs(3)

:

Spock @ FF 97.Jul.25. (printed 3/16/95)

set_author(3) MudOS v21c2 (5 Sep 1994)

```
:
  set_author - .
:
  void set_author( string author );

  set_author( author );
:
  (domain) ,
  . (master object)
  domain_file(4) .
  author_file(4)
  (default value), set_author() .

  set_author() ,
  set_author() . mud
  (mudlib) .
  , : (objects)
  (array_size) .
  (initialized arrays), .
  set_author() ,
  , ,
  , ,

  , create(4) set_author()
  , ,
:
  author_file(4), domain_file(4), author_stats(3),
  set_author(3), domain_stats(3)
:
  Spock @ FF 97.Jul.20.      (printed 3/16/95)
```

set_light(3) MudOS v21c2 (5 Sep 1994)

:

 set_light() - (light level).

:

 int set_light(int light_level_adjustment);

 set_light(light_level_adjustment);

:

 light_level_adjustment 0,

 ...

:

 Spock @ FF 97.Jul.21. (printed 3/16/95)

set_living_name(3) MudOS v21c2 (5 Sep 1994)

:

```
set_living_name() - (living)
                    (living name).
```

:

```
void set_living_name( string name );
```

```
set_living_name( name );
```

:

```
.,
find_living() .
```

:

```
enable_commands(3), find_living(3), find_player(3)
```

:

```
Spock @ FF 97.Jul.21. (printed 3/16/95)
```

set_privs(3) MudOS v21c2 (5 Sep 1994)

:

 set_privs() - (privs string).

:

 void set_privs(object ob, string privs);

 set_privs(ob, privs);

:

 privs ob .

 (efun) PRIVS

 .

:

 privs_file(4), query_privs(3)

:

 Spock @ FF 97.Jul.21. (printed 3/16/95)

seteuid(3) MudOS v21c2 (5 Sep 1994)

:

seteuid() - (effective
user id, euid)

:

int seteuid(string str);

seteuid(str);

:

str . master.c
valid_seteuid()

.

0,
(uid) export_uid() .

, .

:

export_uid(3), getuid(3), geteuid(3), this_object(3),
valid_seteuid(4)

:

Spock @ FF 97.Jul.20. (printed 3/16/95)

throw(3) MudOS v21c2 (5 Sep 1994)

```
:
  throw() - .
:
  void throw(mixed);

  throw( );
:
  throw() . throw()
  catch() ,
  (runtime error) .
  throw() , catch() .
:

  string err;
  int rc;

  err = catch(rc = ob->move(dest));
  if (err) {
    throw("move.c: ob->move(dest): " + err + "\n");
    return;
  }
:
  catch(3), error(3), error_handler(4)
:
  Spock @ FF 97.Jul.25.      (printed 3/16/95)
```

```
chinese_number()
```

```
:
```

```
chinese_number() -
```

```
:
```

```
string chinese_number( int n );
```

```
chinese_number( n );
```

```
:
```

```
n
```

```
48612180
```

```
by (Find@tx)
```

random(3) MudOS v21c2 (5 Sep 1994)

:

random() - (pseudo-random number).

:

int random(int n);

random(n);

:

0 n - 1 .

:

Spock @ FF 97.May.2. (printed 3/16/95)

:

(seed number),

,

0 1 .

to_float(3) MudOS v21c2 (5 Sep 1994)

:

to_float - .

:

float to_float(int i);

to_float(i);

:

to_float() , i.

:

to_int(3), read_buffer(3), sprintf(3), sscanf(3)

:

Spock @ FF 97.Jul.25. (printed 3/16/95)

all_inventory(3) MudOS v21c2 (5 Sep 1994)

:

all_inventory() - .

:

object *all_inventory(object ob);

 *all_inventory(ob);

:

, ob .

:

first_inventory(3), next_inventory(3), deep_inventory(3)

:

Spock @ FF 96.Oct.12. (printed 3/16/95)

children(3) MudOS v21c2 (5 Sep 1994)

```
:
  children() - (object)
      .
:
  object * children( string name );

  *children( name );
:
  (array),
  name . □
  (user object) :

      object *list;

      list = children("/obj/user");

  (),
  users() (interactive) .
:
  deep_inherit_list(3), inherit_list(3), objects(3)
:
  Spock @ FF 97.Jan.26.           (printed 3/16/95)
```

clone_object(3) MudOS v21c2 (5 Sep 1994)

:

clone_object() -

:

object clone_object(string name);

clone_object(name);

:

name (object) ,

..

environment() 0 , .

:

destruct(3), move_object(3), new(3)

:

Spock @ FF 97.Jan.27. (printed 3/16/95)

clonep(3) MudOS v21c2 (5 Sep 1994)

:

clonep() - .

:

int clonep(void | mixed arg);

clonep(| arg);

:

arg objectp() O_CLONE (flag),
(true) (1). MUD
(driver) new(3) (clone_object(3))
, O_CLONE . clonep()
(master copy, call_other(3))
. , clonep() ,
file_name() #n (n
) . clonep() this_object().

:

virtualp(3), userp(3), wizardp(3), objectp(3), new(3),
clone_object(3), call_other(3), file_name(3)

:

Spock @ FF 97.Jan.27. (printed 3/16/95)

deep_inventory(3) MudOS v21c2 (5 Sep 1994)

```
:
  deep_inventory() - ,
    , .
:
  object *deep_inventory( object ob );

  *deep_inventory( ob );
:
  ob (array),
  .
:
  first_inventory(3), next_inventory(3), all_inventory(3)
:
  Spock @ FF 97.Feb.04. (printed 3/16/95)
```

destruct(3) MudOS v21c2 (5 Sep 1994)

:

destruct() - .

:

void destruct(object ob);

destruct(ob);

:

ob. destruct() ,
(global variables), .
ob this_object() , ,

.

:

clone_object(3), new(3), destruct_env_of(4), move(4)

:

Spock @ FF 97.Feb.04. (printed 3/16/95)

environment(3) MudOS v21c2 (5 Sep 1994)

:

environment() - .

:

object environment(object ob);

environment(ob);

:

ob . (argument)
, ob this_object().

:

this_object(3)

:

pock @ FF 97.Feb.12. (printed 3/16/95)

find_object(3) MudOS v21c2 (5 Sep 1994)

:

find_object() - .

:

object find_object(string str);

find_object(str);

:

str .

, file_name()

.

:

file_name(3), stat(3)

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

first_inventory(3) MudOS v21c2

(5 Sep 1994)

:

first_inventory() -

:

object first_inventory(mixed ob);

first_inventory(ob);

:

ob , ob

.

:

file_name(3), next_inventory(3), all_inventory(3),
deep_inventory(3)

:

Spock @ FF 97.Feb.12.

(printed 3/16/95)

load_object(3) MudOS v21c2 (5 Sep 1994)

:

load_object() -

:

object load_object(string str);

load_object(str);

:

str .

, . 0.

:

file_name(3), stat(3), find_object(3)

:

Spock @ FF 97.Feb.18. (printed 3/16/95)

master(3) MudOS v21c2 (5 Sep 1994)

:

master() - (master object)

:

object master(void);

master();

:

(master object) (pointer).

:

find_object(3)

:

Spock @ FF 97.Apr.13. (printed 3/16/95)

move_object(3) MudOS v21c2 (5 Sep 1994)

:

move_object() - (environment) .

:

void move_object(object item, mixed dest);

move_object(item, dest);

:

item dest . item this_object().

item this_object(), move_object() dest

.

:

this_object(3), move(4)

:

Spock @ FF 97.Apr.15. (printed 3/16/95)

new(3) MudOS v21c2 (5 Sep 1994)

:

 new() - .

:

 object new(string name);

 new(name);

;

 name ,

 .. environment()

 .

:

 clone_object(3), destruct(3), move_object(3)

:

 Spock @ FF 97.Apr.24. (printed 3/16/95)

next_inventory(3) MudOS v21c2 (5 Sep 1994)

```
:
  next_inventory() - (inventory)
  .
:
  object next_inventory( object ob );

  next_inventory( ob );
:
  , ob .

: ob move_object() ,
  next_inventory() .
:
  first_inventory(3), all_inventory(3), deep_inventory(3)
:
  Spock @ FF 97.Apr.24. (printed 3/16/95)
```

objects(3) MudOS v21c2 (5 Sep 1994)

:

objects - (array).

:

object *objects(string func, object ob);
object *objects(function f);

*objects(func, ob);

*objects(f);

:

objects() mud . ,
(maximum array size),
objects() .
, objects() .

func ob , ob->func(),
func() .
, objects() .

.

f, f. :
objects((: clonep :)) .

:

livings(3), users(3)

:

Spock @ FF 97.Apr.24. (printed 3/16/95)

present(3) MudOS v21c2 (5 Sep 1994)

:

 present() - (id) .

:

 object present(mixed str, object ob);

 present(str, ob);

:

 str, .

 str, .

 ob, present() ob (inventory),

 , .

:

 move_object(3), environment(3)

:

 Spock @ FF 97.Apr.24. (printed 3/16/95)

query_heart_beat(3) MudOS v21c2 (5 Sep 1994)

:

query_heart_beat() - (heart beat) .

:

int query_heart_beat(object);

query_heart_beat();

:

set_heart_beat() ,
query_heart_beat() . ob,
. 0.

:

heart_beat(4), set_heart_beat(3)

:

Spock @ FF 97.Apr.30. (printed 3/16/95)

query_shadowed()

:
query_shadowed(object ob | void)

:
object query_shadowed(object ob | void);
query_shadowed(ob);

:
this_object()
ob

ob (ob) this_object() (
)
0

MudOS shadow

shadow MudOS
MudOS
shadow MudOS

:
shadow(), query_shadowing()

by (Find@tx)

query_shadowing()

:
query_shadowing(object ob | void)

:
object query_shadowing(object ob | void);

query_shadowing(ob);

:
this_object()
ob

ob (ob) this_object() (
) 0

“” this_object()
ob ()

MudOS shadow

shadow MudOS
MudOS
shadow MudOS

:
shadow(), query_shadowed()

by (Find@tx)

reload_object(3) MudOS v21c2 (5 Sep 1994)

```
:  
  reload_object - .  
:  
  void reload_object( object ob );  
  
  reload_object( ob );  
:  
  ob reload_object( ,  
  ( heart_beat, call_outs, light,  
  shadow ) (re-initialized),  
  create(). ,  
  .  
:  
  export_uid(3), new(3), clone_object(3), destruct(3)  
:  
  Spock @ FF 97.May.26. (printed 3/16/95)
```

restore_object(3) MudOS v21c2 (5 Sep 1994)

:

restore_object() - .

:

int restore_object(string name, int flag);

restore_object(name, flag);

:

name . flag 1,
(non-static) .
(,).

, , .

:

save_object(3)

:

Spock @ FF 97.Jun.2 (printed 3/16/95)

save_object(3) MudOS v21c2 (5 Sep 1994)

:

save_object() - .

:

int save_object(string name, int flag);

save_object(name, flag);

:

(non-static variables)

name . (master
object) valid_write() .

1,

() . 0.

:

save_object() 1, 0.

:

restore_object(3)

:

Spock @ FF 97.Jul.4. (printed 3/16/95)

set_heart_beat(3) MudOS v21c2 (5 Sep 1994)

```
:
    set_heart_beat() - (heartbeat).
:
    int set_heart_beat( int flag );

    set_heart_beat( flag );
:
    0 .
    1 heart_beat()
    . (, mud
    )
    1 ,
    heart_beat().
    , mud 1
    1.
:
    heart_beat(4), query_heart_beat(3)
:
    Spock @ FF 97.Jul.21. (printed 3/16/95)
```

set_hide(3) MudOS v21c2 (5 Sep 1994)

```
:
  set_hide() - (hide flag).
:
  void set_hide( int flag );

  set_hide( flag );
:
  flag . 0 1
  , . master()->valid_hide(ob)
  , ,
  find_object()
  users(), children(), all_inventory()
  .
:
  valid_hide(4)
:
  Spock @ FF 97.Jul.21.       (printed 3/16/95)
```

shadow()

```
shadow “”“”
```

```
“”
```

```
:
```

```
shadow() -
```

```
:
```

```
int shadow( object ob );
```

```
shadow( ob );
```

```
:
```

```
ob this_object()
```

```
10
```

```
valid_shadow() MASTER_OB
```

```
valid_shadow() 1, ,
```

```
b a a
```

```
b a call_other(func)
```

```
b func b func
```

```
a func
```

```
call_other(func)
```

```
call_other()
```

```
“”
```

tell_object(3) MudOS v21c2 (5 Sep 1994)

:

tell_object() - .

:

void tell_object(object ob, string str);

tell_object(ob, str);

:

str ob. ob
(interactive) (), ob .
, ob catch_tell().

:

message(3), write(3), shout(3), say(3), tell_room(3)

:

Spock @ FF 97.jul.24. (printed 3/16/95)

tell_room(3) MudOS v21c2 (5 Sep 1994)

:

tell_room - .

:

void tell_room(mixed ob, string str, object *exclude);

tell_room(ob, str, *exclude);

:

str ob . ob

. exclude, exclude

.

:

message(3), write(3), shout(3), say(3), tell_object(3)

:

Spock @ FF 97.Jul.24. (printed 3/16/95)

this_object(3) MudOS v21c2 (5 Sep 1994)

:

 this_object() -
 (object pointer).

:

 object this_object(void);

 this_object();

:

 .
 ((inherit))
 , this_object() .

:

 this_player(3), previous_object(3), origin(3)

:

 Spock @ FF 97.Jul.25. (printed 3/16/95)

virtualp(3) MudOS v21c2 (5 Sep 1994)

:

virtualp() - (virtual)

.

:

int virtualp(object arg);

virtualp(arg);

:

arg , objectp() 1, O_VIRTUAL
, virtualp() (1) .

(master.c) compile_object ,
(driver) O_VIRTUAL .

:

clonep(3), userp(3), wizardp(3), objectp(3), new(3),
clone_object(3), call_other(3), file_name(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

socket_accept(3) MudOS (5 Sep 1994) socket_accept(3)

socket_accept() - socket (connection)

```
#include
```

```
int socket_accept( int s, string read_callback,  
                  string write_callback );
```

```
socket_accept( s, read_callback,  
               write_callback );
```

```
s socket_create(3) socket_bind(3)
```

```
(listen) socket_listen(3)
```

```
socketsocket_accept() (pending)
```

```
s socket
```

```
(descriptor)
```

```
socket_accept()
```

```
socket
```

```
socket s
```

```
read_callback socket
```

```
socket
```

```
(callback)
```

```
void read_callback(int fd)
```

```
fd socket
```

```
write_callback socket
```

```
socket
```

```
void write_callback(int fd)
```

```
fd socket
```

```
socket socket_close(3)
```

```
socket socket
```

```
close_callback
```

socket_acquire(3) MudOS (5 Sep 1994) socket_acquire(3)

socket_acquire() - socket (ownership)

```
#include
```

```
int socket_acquire( int socket, string read_callback,  
                  string write_callback,  
                  string close_callback );
```

```
socket_acquire( socket, read_callback,  
              write_callback,  
              close_callback );
```

```
socket_acquire() socket_release()  
socket  
(handshake)socket_release()  
(callback) socket
```

```
socket socket_acquire()
```

```
socket
```

```
MudOS  
socket socket_release()  
EESOCKNOTRLSD
```

```
socket_acquire()  
socket
```

```
socket_release(3)
```

socket_address(3) MudOS (5 Sep 1994) socket_address(3)

socket_address() - efun socket

```
#include
```

```
string socket_address( int s );
```

```
socket_address( s );
```

```
socket_address() efun socket s
```

```
"127.0.0.1 23".
```

```
socket_address()
```

```
socket_connect(3), socket_create(3), resolve(3),  
query_host_name(3), query_ip_name(3), query_ip_number(3)
```

Kenny@Broken.History 97.Jul.27 (printed 3/16/95)

socket_bind(3) MudOS (5 Sep 1994) socket_bind(3)

socket_bind() - (bind) socket

```
#include
```

```
int socket_bind( int s, int port );
```

```
socket_bind( s, port );
```

```
socket_bind() socket  
socket socket_create(3)  
, address familysocket_bind()  
socket s
```

```
socket_bind()
```

```
  EESUCCESS
```

```
  EEFDRANGE    (descriptor)□
```

```
  EEBADF
```

```
  EESECURITY
```

```
  EEISBOUND    socket
```

```
  EEADDRINUSE
```

```
  EEBIND
```

```
  EEGETSOCKNAME getsockname
```

socket_connect(3), socket_create(3), socket_listen(3)

socket_close(3) MudOS (5 Sep 1994) socket_close(3)

socket_close() - socket

```
#include
```

```
int socket_close( int s );
```

```
socket_close( s );
```

```
socket_close() socket s socket  
efun (slot)
```

```
socket_close()
```

```
EESUCCESS
```

```
EEFDRANGE      (descriptor)□
```

```
EEBADF
```

```
EESECURITY
```

```
socket_accept(3), socket_create(3)
```

Kenny@Broken.History 97.Jul.27 (printed 3/16/95)

socket_connect(3) MudOS (5 Sep 1994) socket_connect(3)

socket_connect() - socket (connection)

```
#include
```

```
int socket_connect( int s, string address,  
                  string read_callback,  
                  string write_callback );
```

```
socket_connect( s, address,  
              read_callback,  
              write_callback );
```

```
s sockets STREAM MUD  
socketaddress socket  
"127.0.0.1 23"
```

```
read_callback  
(callback)
```

```
void read_callback(int fd, mixed message)
```

```
fd socket message
```

```
write_callback socket
```

```
void write_callback(int fd)
```

```
fd socket
```

```
socket_connect()
```

```
EESUCCESS
```


socket_create(3) MudOS (5 Sep 1994) socket_create(3)

socket_create() - efun socket

```
#include
```

```
int socket_create( int mode, string read_callback,  
                  void | string close_callback );
```

```
socket_create( mode, read_callback,  
              | close_callback );
```

socket_create() efun socketmode
socket socket

MUD TCP LPC

STREAM TCP

DATAGRAM UDP

read_callback socket
(callback)

```
void read_callback(int fd, mixed message)
```

fd socket message

close_callback socket
socket_close()

```
void close_callback(int fd)
```

fd socketclose_callback
DATAGRAM socket

socket_create()

socket_error(3) MudOS (5 Sep 1994) socket_error(3)

socket_error() - socket

```
#include
```

```
string socket_error( int error );
```

```
socket_error( error );
```

```
socket_error()
```

```
socket_error()
```

```
    "socket_error: invalid error number"
```

```
    "socket_error: "
```

```
socket_create(3), socket_connect(3)
```

Kenny@Broken.History 97.Jul.27 (printed 3/16/95)

socket_listen(3) MudOS (5 Sep 1994) socket_listen(3)

socket_listen() - (listen) socket (connection)

```
#include
```

```
int socket_listen( int s, string listen_callback );
```

```
socket_listen( s, listen_callback );
```

```
socket_create(3) socket
```

```
socket_listen(3) socket
```

```
socket_accept(3) socket_listen()
```

```
STREAM MUD sockets
```

```
listen_callback socket
```

```
(callback)
```

```
void listen_callback(int fd)
```

```
fd socket
```

```
socket_listen()
```

```
EESUCCESS
```

```
EEFDRANGE (descriptor)□
```

```
EEBADF
```

```
EESECURITY
```

```
EEMODENOTSUPP socket
```

```
EENOADDR socket
```

socket_release(3) MudOS (5 Sep 1994) socket_release(3)

socket_release() - socket (ownership)

```
#include
```

```
int socket_release( int socket, object ob,  
                   string release_callback );
```

```
socket_release( socket, ob,  
               release_callback );
```

socket_release() (set-up)
(connected) socket

socket
socket (handshake)
socket_release() socket_release()
(integrity) ob release_callback
ob socket
ob (callback) socket_acquire()
socket_acquire() socket
obob socket_acquire()
socket
socket

socket socket_release()
EESUCCESS ob socket
EESOCKNOTRLSD socket (descriptor)

```
socket_acquire(3)
```

socket_status()

socket_status() LPC

```
mixed *socket_status(void | int);
dump_socket_status( | )
```

LPC

0

```
ret[0] = (int)
ret[1] = (string)
ret[2] = (string)
ret[3] = (string)
ret[4] = (string)
ret[5] = (object)
```

```
(0  1    2    3    4    5)
Fd
```

```
-----
 5 BOUND  DATAGRAM 192.168.0.1.8000  *.*  /adm/daemons/n
 7 LISTEN  STREAM 192.168.0.1.6969    *.*  /adm/daemons/ftpd
-1 CLOSED  MUD    *.*    *.*    0
-1 CLOSED  MUD    *.*    *.*    0
-1 CLOSED  MUD    *.*    *.*    0
-1 CLOSED  MUD    *.*    *.*    0
```

by (Find@tx)

)

status() LPC

```
socket_status(void | int);  
socket_status( | )
```

```
0] = (int)  
1] = (string)  
2] = (string)  
3] = (string)  
4] = (string)  
5] = (object)
```

3 4 5)

```
DATAGRAM 192.168.0.1.8000 *.* /adm/daemons/network/dns_master  
STREAM 192.168.0.1.6969 *.* /adm/daemons/ftpd  
MUD *.* *.* 0  
MUD *.* *.* 0  
MUD *.* *.* 0  
MUD *.* *.* 0
```

socket_write(3) MudOS (5 Sep 1994) socket_write(3)

socket_write() - socket

```
#include
```

```
int socket_write( int s, mixed message,  
                 void | string address );
```

```
socket_write( s, message,  
             | address );
```

```
socket_write() socket s socket s  
STREAM MUD socket (connected)  
socket DATAGRAM  
"127.0.0.1 23"
```

```
socket_write()
```

```
    EESUCCESS
```

```
EEFDRANGE      (descriptor)□
```

```
EEBADF
```

```
EESECURITY
```

```
EENOADDR      socket
```

```
EEBADADDR
```

```
EENOTCONN     socket
```

```
EEALREADY
```

```
EETYPENOTSUPP
```

break_string(3) MudOS v21c2 (5 Sep 1994)

```
:
break_string() - (string).
:
string break_string( string str | int foobar, int len,
                  void | int indent | string indent );

break_string( str foobar, len,
              indent indent );
:
break_string() len (character)
, .
indent , indent.

(argument) , break_string()
0.
:
break_string() .
'!' '\n' . ,
. :
, '\n' , break_string()
. break_string() .
MudOS , break_string() '\n' .
:
implode(3), explode(3), sprintf(3)
:
Cygnus
:
Spock @ FF 96.Oct.16.           (printed 3/16/95)
```


capitalize(3) MudOS v21c2 (5 Sep 1994)

:

capitalize() -
 (character) .

:

string capitalize(string str);

 capitalize(str);

:

 str ,

 .

:

lower_case(3)

:

Spock @ FF 96.Oct.16. (printed 3/16/95)

clear_bit(3) MudOS v21c2 (5 Sep 1994)

:

clear_bit() - bit .

:

string clear_bit(string str, int n);

clear_bit(str, n);

:

(string) , n bit

0. , str .

:

set_bit(3), test_bit(3)

:

Spock @ FF 97.Jan.27.

(printed 3/16/95)

crypt(3) MudOS v21c2 (5 Sep 1994)

:

crypt() - .

:

string crypt(string str, string seed);

crypt(str, seed);

:

seed , str

. seed 0 , .

.

:

Spock @ FF 97.Jan.27.

(printed 3/16/95)

explode(3) MudOS v21c2 (5 Sep 1994)

:

explode() - .

:

string *explode(string str, string del);

 *explode(str, del);

:

explode() (array),
str del .

□:

explode(str, " ");

 str (
 str ,).

:

sscanf(3), extract(3), replace_string(3), strstrch(3)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

implode(3) MudOS v21c2 (5 Sep 1994)

:

implode() - .

:

string implode(mixed *arr, string del);

implode(*arr, del);

:

arr ,

del .

. (element) .

:

explode(3), sprintf(3)

:

Spock @ FF 97.Feb.14.

(printed 3/16/95)

lower_case(3) MudOS v21c2 (5 Sep 1994)

:

lower_case() -

:

string lower_case(string str);

lower_case(str);

:

() .

:

capitalize(3)

:

Spock @ FF 97.Feb.18. (printed 3/16/95)

process_string(3) MudOS v21c2 (5 Sep 1994)

```
:
process_string() - .
:
string process_string( string combinestring );
    process_string( combinestring );
:
.
.
:
"@@[[:]| 1 | 2...| N ]@@"
:
->( 1, 2, ....., N );
, process_string() (recuse)
.,
process_string() .
    combinestring ,
.,
, []
..
:
process_value(3)
:
    mud (mudlib) , .
    process_string() ,
    (effuserid, euid) 0 .
□:
"@@query_the_name:/obj/monster#123@@"
:
```

"."

reg_assoc(3)

MudOS (26 Dec 1994)

reg_assoc(3)

reg_assoc() - (regular pattern)(extractor)

```
mixed *reg_assoc(string str, string *pat_arr, mixed
*tok_arr, void | mixed def);
```

```
*reg_assoc( str, *pat_arr, *tok_arr,
            | def);
```

```
reg_assoc (explode) pat_arr
(regular expression)
(token) tok_arr def 0
```

```
({ 1, 1, 2, 2, ...,
   n, n, n+1 })
```

```
({ def, 1 , ...,
   def, n , def })
```

```
pat_arr tok_arr tok_arr i
pat_arr i pat_arr
```

```
pat_arr tok_arr
({ ({ str }), ({ def }) })
```

```
#define STRING_PAT "\"(\\|.|[^\"])*\""
```

```
#define NUM_PAT "[0-9]+"
```

```
#define F_STRING 1
```

```
#define F_NUM 2
```

```
reg_assoc("Blah \"blah\" test 203 hhh j 308 \"bacdcd\b\"acb",
({ STRING_PAT, NUM_PAT }), ({ F_STRING, F_NUM }), "no-match")
```


regex() - (regular expression)

```
string *regex( string *lines, string pattern, void | int
flag );
```

```
*regex( *lines, pattern, | flag );
```

regex(3)

flag

0 2

flag 1 ({ 1 + 1,

1, ..., n + 1, n }) 1

(index)

`|' (branch)

(piece)

`*`+`?` (atom)

`*`+`?`

`?`

□(range)`.'`

`^` \`

□ `[]`

`^`

`_`

ASCII

`[0-9]` `]`

repeat_string() MudOS v22

:

repeat_string() - ,

.

:

string repeat_string(string str , int times);

repeat_string(str , times);

:

str times .

:

repeat_string("ab",5)

: "ababababab" .

options PACKAGE_CONTRIB .

by (Find@tx)

replace_string(3) MudOS v21c2 (5 Sep 1994)

```
:
replace_string() - .
:
string replace_string( str, pattern, replace );
string replace_string( str, pattern, replace, max );
string replace_string( str, pattern, replace, first, last );

string str, pattern replace;
int max, first, last;

replace_string( str, pattern, replace );
replace_string( str, pattern, replace, max );
replace_string( str, pattern, replace, first, last );

str, pattern replace;
max, first, last;
:
replace_string() str pattern
replace. pattern ( ),
str . ,
undefindp() 1, stringp() 0 .

replace_string() replace ,
.: replace_string(" 1 2 3 ", " ", "")
"123".replace_string() explode()
implode() .

().
:

first:

( 1 ). 0,
. replace_string("xyxx", "x", "z", 2)
"zyzx".

last:
```

```
□:
first < 1: .
last == 0 last > (max_matches): .
```

set_bit(3) MudOS v21c2 (5 Sep 1994)

:

set_bit() - (bitstring) (bit).

:

string set_bit(string str, int n);

set_bit(str, n);

:

, str n 1.

, str .

n . ,

.

, .

, (byte) 6 .

:

clear_bit(3), test_bit(3)

:

Spock @ FF 97.Jul.20. (printed 3/16/95)

sprintf(3) MudOS v21c2 (5 Sep 1994)

:
printf, sprintf - .
:
void printf(string format, ...);
string sprintf(string format, ...);

printf(format, ...);
sprintf(format, ...);

:
LPC (s)printf() , Lynscar
(Sean A Reith) .

(modifier):

" " .

"+" + .

"-" (field) .
: (s)printf() ,

,

.

C

.

"|" .

"=" ,
(column mode) . ,

· ,

(wrap) .

"#" . ,
(\n) .

.

n . *
. n 0 ,
(zeros) .
n 0 ,

sscanf(3) MudOS v21c2 (5 Sep 1994)

```
:
:   sscanf() - .
:
:   int sscanf( string str, string fmt,
:             mixed var1, mixed var2 ... );
:
:   sscanf( str, fmt,
:          var1, var2 ... );
:
:   fmt  str. fmt %d %s
:   ,. %d %s
:   , var1, var2 ... %d
:   , %s . * , (
:   %*d %*s) (*) .
:   () LPC sscanf() C
:   sscanf() , . LPC sscanf()
:   () sscanf(),
:   . , LPC sscanf()
:   : sscanf( str, "%s %s", str1, str2 ); ,
:   str (
:   ) str1, str2.
:
:   sscanf() %d %s .
:
:   explode(3), replace_string(3), strsrch(3)
:
:   Spock @ FF 97.Jul.23. (printed 3/16/95)
```

strcmp(3) MudOS v21c2 (5 Sep 1994)

:

strcmp() - (lexical
relationship).

:

int strcmp(string one, string two);

strcmp(one, two);

:

strcmp() C strcmp .
one two (one
two), strcmp() 0 .
, 0. two one ,
strcmp() 0 . (efun)
sort_array(3) , .

:

sort_array(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

strlen(3) MudOS v21c2 (5 Sep 1994)

:

strlen() - .

:

int strlen(string str);

strlen(str);

:

strlen() (characters).

:

sizeof(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

strsrch(3) MudOS v21c2 (5 Sep 1994)

:

strsrch() - .

:

```
int strsrch( string str, string substr | int char,  
            int flag );
```

```
strsrch( str, substr char,  
         flag );
```

:

strsrch() str substr.
flag -1, substr.
, (character)
(C strchr() strchr()). strsrch()
(empty string) (null value)

.

:

strsrch() str
. , -1,
().

:

explode(3), sscanf(3), replace_string(3), regexp(3)

:

Spock @ FF 97.Jul.23. (printed 3/16/95)

terminal_colour()

```
terminal_colour()
```

```
string terminal_colour(string str, mapping m,  
    int wrap, int indent);  
terminal_colour( str m,  
    wrap, indent )
```

```
terminal_colour() str %^key%^  
value key value  
m
```

'wrap' is the optional column number to wrap at,
and 'indent' is the amount to indent the second
and following lines. Codes are assumed to change
the mode of the terminal and not generate any
printable characters for the purposes of wrapping.

options PACKAGE_CONTRIB .

by (Find@tx)

test_bit(3) MudOS v21c2 (5 Sep 1994)

:

test_bit() - (bitstring)
 (bit) .

:

int test_bit(string str, int n);

test_bit(str, n);

:

str, n 0 1.

:

set_bit(3), clear_bit(3)

:

Spock @ FF 97.Jul.24. (printed 3/16/95)

```
upper_case()
```

```
upper_case()
```

```
string upper_case(string);  
upper_case()
```

```
options PACKAGE_CONTRIB .
```

```
capitalize,  
lower_case
```

```
by (Find@tx)
```

all_previous_objects(3) MudOS v21c2 (5 Sep 1994)

:

all_previous_objects() - .

:

object *all_previous_objects();

:

(an array of object).

, (local function)

(current object) previous_object() .

:

call_other(3), call_out(3), origin(3), previous_object(3)

:

Spock @ FF 96.Oct.12.

(printed 3/16/95)

ctime(3) MudOS v21c2 (5 Sep 1994)

:

ctime() -

:

string ctime(int clock);

ctime(clock);

:

, clock
1970 .

:

time(3), time_expression(3), localtime(3), uptime(3)

:

Spock @ FF 97.Jan.27. (printed 3/16/95)

deep_inherit_list(3)MudOS v21c2 (5 Sep 1994)

:

deep_inherit_list() - .
(parent object)

:

string *deep_inherit_list(object obj);

*deep_inherit_list(obj);

:

,
.

:

inherit_list(3), inherits(3)

:

Spock @ FF 97.Feb.04. (printed 3/16/95)

error(3) MudOS v21c2 error(3)

:

error - (run_time) .

:

void error(string err);

error(err);

:

error() , err.

(thread).

, (debug log)

.

:

catch(3), throw(3), error_handler(4)

:

Spock @ FF 97.Feb.12. (printed 3/16/95)

eval_cost(3) MudOS v21c2 (5 Sep 1994)

:
 eval_cost() - (evaluation cost)

:
 .
:
 void eval_cost()

 eval_cost()
:
 eval_cost() (driver)
 , .

:
 catch(3), error(3), throw(3), error_handler(4),
 set_eval_limit(3), reset_eval_cost()

:
 Spock @ FF 97.Feb.12. (printed 3/16/95)

function_exists(3) MudOS v22 (5 Sep 1994)

```
:  
function_exists() - .  
:  
string function_exists( string str, object ob, int flag );  
  
function_exists( str, ob, flag );  
:  
str ob .  
str ob ,  
file_name( ob ) .  
  
ob str 0.  
  
, function_exists() ob  
(shadows).  
  
flag , static private .  
  
:  
call_other(3), call_out(3), functionp(3),  
valid_shadow(4)  
:  
Spock @ FF 97.Feb.12. (printed 3/16/95)  
  
:  
Find. v22 driver. (99.jan.)
```

function_profile(3) MudOS v21c2 (5 Sep 1994)

```
:
function_profile() -
    (profiling) .
:
mixed *function_profile( object ob );

*function_profile( ob );
:
ob this_object() ( ob )
. (driver)
PROFILE_FUNCTIONS .
:
, ob
:

([ "name"    : ,
   "calls"   : ,

/* cpu (microsecond) */
   "self"    : cpu_time_spent_in_self,
   "children": cpu_time_spent_in_children
])

CPU ,
(microseconds), .
:
rusage(3), time_expression(3), opcprof(3)
:
Spock @ FF 97.Jul.26. (printed 3/16/95)
```

inherit_list(3) MudOS v21c2 (5 Sep 1994)

:

inherit_list() - (parents)

.

:

string *inherit_list(object obj);

*inherit_list(obj);

:

obj ,
(array) . : A B, B C ,
inherit_list(A) B , C.

:

deep_inherit_list(3), inherits(3)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

inherits(3) MudOS v21c2 (5 Sep 1994)

:

inherits() -

:

int inherits(string file, object obj);

inherits(file, obj);

:

obj file, inherits() 0. obj

file 1, file

2.

:

deep_inherit_list(3), inherit_list(3)

:

Spock @ FF 97.Feb.14. (printed 3/16/95)

localtime(3) MudOS v21c2 (5 Sep 1994)

```
:
localtime() -
:
#include

mixed *localtime( int time );

*localtime( time );
:
localtime() ( time()
) . .
time() (GMT (UTC)),
.
. localtime()
.
,
MUD .

localtime() .
(index) localtime.h .
localtime() .

int  LT_SEC      (0..59)
int  LT_MIN      (0..59)
int  LT_HOUR     (0..23)
int  LT_MDAY     (1..31)
int  LT_MON      (0..11)
int  LT_YEAR     ( 1900)
int  LT_WDAY     (0..6)
int  LT_YDAY     (0..365)
int  LT_GMTOFF   (UTC)
string  LT_ZONE

:
ctime(3), time(3), time_expression(3), uptime(3),
/include/localtime.h
:
```

max_eval_cost(3) MudOS v21c2 (5 Sep 1994)

:

max_eval_cost() - (evaluation cost)

:

void max_eval_cost()

max_eval_cost()

:

max_eval_cost() (driver)

, .

:

catch(3), error(3), throw(3), error_handler(4),
set_eval_limit(3), reset_eval_cost(3)

:

Spock @ FF 97.Apr.15. (printed 3/16/95)

reclaim_objects(3) MudOS v21c2 (5 Sep 1994)

```
:
reclaim_objects - .
:
int reclaim_objects( void );
reclaim_objects( );
:
,
.,
mud .
(global variable) (pointer)
,,
(efun) .
:
destruct(3)
:
Spock @ FF 97.May.24. (printed 3/16/95)
```


replace_program(3)MudOS v21c2 (5 Sep 1994)

```
:
    replace_program() - this_object() ()
    .
:
    void replace_program( string str );

    replace_program( str );
:
    replace_program() this_object()
    . str .
    , .
    (global variable)
    . , .
:
    clone_object(3), new(3)
:
    Spock @ FF 97.May.27. (printed 3/16/95)
```

replaceable()

replaceable()

```
int replaceable(object ob);  
replaceable( ob);
```

```
int replaceable(object ob, string *fnames);  
replaceable( ob, fnames);
```

```
ob  
fnames  
ob  
0 1
```

```
()  
({ "create" })  
create()
```

```
replace_program().
```

```
create()  
clone replaceable()  
TRUE replace_program()
```

```
replace_program,  
functions,  
function_exists,  
inherit_list
```

by (Find@tx)

reset_eval_cost(3) MudOS v21c2 (5 Sep 1994)

:

reset_eval_cost() - .

:

void reset_eval_cost();

:

reset_eval_cost()

.

:

catch(3), error(3), throw(3), error_handler(4),
eval_cost(3), set_eval_limit(3)

:

Spock @ FF 97.Jun.2. (printed 3/16/95)

set_eval_limit(3) MudOS v21c2 (5 Sep 1994)

```
:
    set_eval_limit() - (evaluation cost)
    .
:
    void set_eval_limit( int );

    set_eval_limit( );
:
    set_eval_limit( ,
    (thread)
    . 0,
    (counter) , .
    set_eval_limit(-1) .
:
    catch(3), error(3), throw(3), error_handler(4),
    eval_cost(3)
:
    Spock @ FF 97.Jul.21. (printed 3/16/95)
```

set_reset(3) MudOS v21c2 (5 Sep 1994)

:

set_reset - (reset) .

:

varargs void set_reset(object ob, int time);

set_reset(ob, time);

:

ob time .

time, .

:

reset time = current_time + reset_time / 2 +
random(reset_time / 2)

:

reset(4)

:

Spock @ FF 97.Jul.21. (printed 3/16/95)

shutdown(3) MudOS v21c2 (5 Sep 1994)

```
:
shutdown() - mud (driver).
:
void shutdown( int how );

shutdown( how );
:
.
kill
, shutdown . how
exit() . , how
-1 , script .
reboot ( mud ) shutdown(),
halt ( mud ) shutdown(-1) .
mud , script
.
shutdown() . simul_efun
shutdown() exec(),
shutdown() . (master.c)
valid_override(4) efun::shutdown()
.
:
crash(4), slow_shutdown(4)
:
Spock @ FF 97. Jul.23.      (printed 3/16/95)
```

time(3) MudOS v21c2 (5 Sep 1994)

:

time() - 1970 .

:

int time(void);

time ();

:

1970 () ,

.

:

ctime(3), localtime(3), time_expression(3), uptime(3)

:

Spock @ FF 97.Jul.25. (printed 3/16/95)

uptime(3) MudOS v21c2 (5 Sep 1994)

:

uptime() - (driver)

.

:

int uptime(void);

uptime();

:

uptime() .

:

time(3), ctime(3), localtime(3), time_expression(3)

:

Spock @ FF 97.jul.25. (printed 3/16/95)

variables()

variables()

```
string *variables(object, int default: 0);  
variables( 0)
```

```
variables()  
( 0)
```

```
{ , }.
```

```
"" LPC "string"  
"protected int"
```

```
options PACKAGE_CONTRIB .
```

```
by (Find@tx)
```