Index

Numerics
- 128-bit arithmetic and logical operations *511*
- 64-Bit arithmetic and logical Operations *503*

A
- a_adrsToStr (socket module) *625*, *642*
- a_appendFile (blobs module) *54*
- a_appendFileExtended (blobs module) *55*
- Abstract classes in HOWL *1043*
- a_bToStr (conversions module) *117*
- a_bufToBlob1 (blobs module) *52*
- a_bufToBlob2 (blobs module) *52*
- a_cat (blobs module) *48*
- a_cat (strings module) *904*
- a_catbuf (strings module) *909*
- a_catbuf2 (strings module) *909*
- a_catbuf3 (strings module) *909*
- a_catsub (blobs module) *50*
- a_catsub (strings module) *907*
- a_catz (strings module) *906*
- accept (socket module) *626*
- AccessDenied (exceptions module) *307*
- AccessViolation (exceptions module) *309*
- Accumulate (timer class) *998*
- a_cmdLn (args module) *9*
- a_columnize2 (strings module) *886*
- a_columnize3 (strings module) *886*
- _acos (math module) *532*
- acos (math module) *532*
- acos32 (math module) *533*
- acos64 (math module) *533*
- acos80 (math module) *533*
- _acot (math module) *534*
- acot (math module) *534*
- acot32 (math module) *534*
- acot64 (math module) *534*
- acot80 (math module) *534*
- a_cpy (blobs module) *42*
- a_cpy (strings module) *829*
- a_cpyz (strings module) *829*
- _acsc (math module) *535*
- acsc (math module) *535*
- acsc32 (math module) *535*
- acsc64 (math module) *535*
- acsc80 (math module) *535*
- addDays (date module) *287*
- addDays (date/time module) *298*
- addHours (time class module) *994*
- addHours (time module) *985*
- addl (math module) *512*
- addMins (time class module) *994*
- addMins (time module) *985*
- addMonths (date/time module) *287*, *299*
- addq (math routine) *503*
- addSecs (time class module) *994*
- addSecs (time module) *985*
- addYears (date/time module) *288*, *299*
- a_delete (strings module) *837*
- a_delLeadingSpaces (strings module) *839*
- a_delTrailingSpaces (strings module) *840*
- a_deTab2 (strings module) *890*
- a_deTab3 (strings module) *891*
- adrsToStr (socket module) *625*, *642*
- a_dToStr (conversions module) *123*
- a_e32ToStr (conversions module) *236*
- a_e64ToStr (conversions module) *235*
- a_e80ToStr (conversions module) *234*
- a_enTab2 (strings module) *894*
- a_enTab3 (strings module) *894*
- a_extract (patterns module) *607*
- a_extractBase (filesys module) *448*
- a_extractExt (filesys module) *450*
- a_extractFilename (filesys module) *451*
- a_extractPath (filesys module) *452*
- a_first (strings module) *831*
- afterRow (arrays module) *19*
- a_get (environment module) *301*
- a_getField2 (strings module) *875*
- a_getField3 (strings module) *876*
- a_getFullPathName (filesys module) *460*
- a_gets (blobs module) *64*
- a_gets (file class module) *334*
- a_gets (file I/O module) *429*
- a_gets (socket module) *659*
- a_gets (stdin module) *739*
- a_h128ToStr (conversions module) *145*
- a_h16ToStr (conversions module) *136*
- a_h32ToStr (conversions module) *138*
- a_h64ToStr (conversions module) *141*
- a_h80ToStr (conversions module) *143*
- a_h8ToStr (conversions module) *132*

a_i128TStr (conversions module) *181*
a_i16ToStr (conversions module) *173*
a_i32ToStr (conversions module) *176*
a_i64ToStr (conversions module) *178*
a_i8ToStr (conversions module) *170*
a_insert (strings module) *836*
a_joinPaths (filesys module) *453*
a_last (strings module) *833*
alloc (blobs module) *37*
allocAligned (blobs module) *38*
allocBlockInHeap (memory module) *557*
a_load (blobs module) *53*
a_loadExtended (blobs module) *53*
a_lower (strings module) *899*
a_lToStr (conversions module) *129*
andl (math module) *517*
andq (math module) *508*
a_normalize (filesys module) *455*
append (lists module) *493*
appendFile (blobs module) *54*
append_index (list module) *493*
append_last (list module) *494*
append_node (list module) *493*
appException *1011*
AppException procedure *1007*
Application Framework *1007*
appStart *1010*
AppStart procedure *1007*
appTerminate *1011*
AppTerminate procedure *1007*
a_qToStr (conversions module) *125*
a_r32ToStr (conversions module) *243*
a_r64ToStr (conversions module) *243*
a_r80ToStr (conversions module) *242*
arb (patterns module) *608*
a_reverse (strings module) *900*
arg.a_cmdLn *9*
arg.args *12*
arg.a_v *11*
arg.c *10*
arg.cmdLn *9*
arg.delete *11*
arg.destroy *12*
arg.globalOptions *12*
arg.localOptions *13*
arg.v *10*
args (args module) *12*
Arithmetic and logical operations (128-bit) *511*
Arithmetic and logical operations (64-bit_ *503*
a_rmv1stWord1 (strings module) *880*
a_rmv1stWord2 (strings module) *881*
a_rmvLastWord1 (strings module) *882*
a_rmvLastWord2 (strings module) *882*
a_rmvTrailingSpaces (strings module) *843*
a_roman (conversions module) *245*
Array manipulation *15*
Array operations *18*
array.afterRow *19*
array.beforeRow *19*
array.cpy *18*
array.daAlloc *16*
array.daFree *16*
array.dArray *15*
array.element *17*
array.endreduce *19*
array.index *17*
array.IsItDynamic *17*
array.IsItVar *17*
array.lookupTable *22*
array.reduce *19*
array.reduction *19*
array.transpose *20*
ArrayBounds (exceptions module) *308*
ArrayShapeViolation (exceptions module) *308*
asDword (HLA module) *470*
_asec (math module) *536*
asec (math module) *536*
asec32 (math module) *536*
asec64 (math module) *536*
asec80 (math module) *536*
_asin (math module) *531*
asin (math module) *531*
asin32 (math module) *531*
asin64 (math module) *531*
asin80 (math module) *531*
AssertionFailed (exceptions module) *306*
Assignments (blobs module) *42*
a_subBlob (blobs module) *44*
a_substr (strings module) *830*
asWord (HLA module) *470*
atan (math module) *526*
atan32 (math module) *526*

atan64 (math module) *526*
atan80 (math module) *526*
a_tbToStr (conversions module) *127*
atof (conversions module) *244*
atoi128 (conversions module) *185*
atoi16 (conversions module) *183*
atoi32 (conversions module) *184*
atoi64 (conversions module) *185*
atoi8 (conversions module) *182*
a_toNativePath (filesys module) *460*
a_toString (date/time module) *291*, *299*
a_toString (time class module) *995*
a_toString (time module) *987*
atou128 (conversions module) *222*
atou16 (conversions module) *220*
atou32 (conversions module) *220*
atou64 (conversions module) *221*
atou8 (conversions module) *219*
a_toUnixPath (filesys module) *457*
a_toWin32Path (filesys module) *458*
atPos (patterns module) *588*
a_translate (strings module) *902*
a_trim (strings module) *842*
a_truncate (strings module) *834*
AttemptToDerefNull (exceptions module) *306*
AttemptToFreeNULL (exceptions module) *308*
a_u128ToStr (conversions module) *217*
a_u16ToStr (conversions module) *210*
a_u32ToStr (conversions module) *213*
a_u64ToStr (conversions module) *215*
a_u8ToStr (conversions module) *206*
a_upper (strings module) *898*
a_v (args module) *11*
a_wToStr (conversions module) *120*

B

Back tracking *609*
Back tracking support in pattern matching functions *611*
BadFileHandle (exceptions module) *306*
BadObjPtr (exceptions module) *306*
beforeRow (arrays module) *19*
bind (socket module) *626*
Bit manipulation *25*
Bitmaps (HOWL) *1031*
bits.cnt *25*
bits.coalese *33*
bits.distribute function *32*
bits.extract *32*
bits.merge16 *29*
bits.merge32 *28*
bits.merge8 *29*
bits.nibbles16 *31*
bits.nibbles32 *30*
bits.nibbles8 *31*
bits.reverse16 *26*
bits.reverse32 *26*
bits.reverse8 *27*
bkgColor_g (in HOWL apps) *1010*
Blob accessor functions *39*
Blob assignment functions *42*
Blob comparison functions *45*
Blob concatenation functions *48*
Blob conversion functions *51*
Blob extraction functions *44*
Blob internal representation *36*
Blob scanning functions *45*
Blob variable initialization and allocation *37*
blob.a_appendFile *54*
blob.a_appendFileExtended *55*
blob.a_bufToBlob1 *52*
blob.a_bufToBlob2 *52*
blob.a_cat *48*
blob.a_catsub *50*
blob.a_cpy *42*
blob.a_gets *64*
blob.alloc *37*
blob.allocAligned *38*
blob.a_load *53*
blob.a_loadExtended *53*
blob.appendFile *54*
blob.a_subBlob *44*
blob.bufToBlob2 *51*
blob.bufToBlob3 *51*
blob.cat2 *49*
blob.cat3 *49*
blob.catbuf2 *50*
blob.catbuf3a *50*
blob.catbuf3b *51*
blob.catbuf4 *51*
blob.catsub *49*
blob.catsub4 *49*
blob.catsub5 *49*
blob.chpos *47*

blob.chpos2 *47*
blob.chpos3 *47*
blob.cpy *43*
blob.destroy *39*
blob.eof *42*
blob.eoln *64*
blob.eq *45*
blob.fillb *43*
blob.filld *44*
blob.fillw *43*
blob.free *39*
blob.get *64*
blob.getByte *60*
blob.getc *64*
blob.getDword *61*
blob.getf *64*
blob.geth128 *64*
blob.geth16 *64*
blob.geth32 *64*
blob.geth64 *64*
blob.geth8 *64*
blob.geth80 *64*
blob.geti128 *64*
blob.geti16 *64*
blob.geti32 *64*
blob.geti64 *64*
blob.geti8 *64*
blob.getLword *62*
blob.getQword *62*
blob.gets *64*
blob.getTbyte *62*
blob.getu128 *64*
blob.getu16 *64*
blob.getu32 *64*
blob.getu64 *64*
blob.getu8 *64*
blob.getWord *61*
blob.index *46*
blob.index2 *46*
blob.index3 *46*
blob.indexStr *46*
blob.indexStr2 *46*
blob.indexStr3 *46*
blob.init *37*
blob.init16 *37*
blob.length *39*
blob.load *53*
blob.maxlen *40*
blob.ne *45*
blob.newln *63*
blob.put *64*
blob.putb *63*
blob.putbool *63*
blob.putByte *57*
blob.putc *63*
blob.putcset *63*
blob.putcSize *63*
blob.putd *63*
blob.putDword *58*
blob.pute32 *64*
blob.pute64 *64*
blob.pute80 *64*
blob.puth128 *63*
blob.puth16 *63*
blob.puth16Size *63*
blob.puth32 *63*
blob.puth32Size *63*
blob.puth64 *63*
blob.puth64Size *63*
blob.puth8 *63*
blob.puth80 *63*
blob.puth80Size *63*
blob.puth8Size *63*
blob.puti128 *63*
blob.puti128Size *63*
blob.puti16 *63*
blob.puti16Size *63*
blob.puti32 *63*
blob.puti32Size *63*
blob.puti64 *63*
blob.puti64Size *63*
blob.puti8 *63*
blob.puti8Size *63*
blob.putl *63*
blob.putLword *59*
blob.putq *63*
blob.putQword *58*
blob.putr32 *64*
blob.putr64 *64*
blob.putr80 *64*
blob.puts *63*
blob.putsSize *63*
blob.puttb *63*
blob.putTbyte *59*
blob.putu128 *64*
blob.putu128Size *64*

blob.putu16 *63*
blob.putu16Size *63*
blob.putu32 *63*
blob.putu32Size *63*
blob.putu64 *63*
blob.putu64Size *64*
blob.putu8 *63*
blob.putu8Size *63*
blob.putw *63*
blob.putWord *58*
blob.rchpos *48*
blob.rchpos2 *48*
blob.rchpos3 *48*
blob.rcursor *40*
blob.read *60*
blob.readAt *60*
blob.readLn *64*
blob.realloc *38*
blob.reset *42*
blob.rindex *46*
blob.rindex2 *46*
blob.rindex3 *46*
blob.rindexStr *46*
blob.rindexStr2 *46*
blob.rindexStr3 *46*
blob.save *55*
blob.setLength *39*
blob.setMaxlen *40*
blob.setrCursor *41*
blob.setwCursor *41*
blob.subBlob *44*
blob.wcursor *41*
blob.write *55*
blob.writeAt *57*
blobRec (blobs module) *36*
Blobs *35*
blobs.hhf *35*
BlockAlreadyFree (exceptions module) *308*
blockInHeap (memory module) *557*
BoundInstr (exceptions module) *310*
Breakpoint (exceptions module) *309*
brk (strings module) *863*
brk2 (strings module) *863*
brk3 (strings module) *864*
bSize (conversions module) *92*
bToBuf (conversions module) *101*
bToStr (conversions module) *115*
bufToBlob2 (blobs module) *51*
bufToBlob3 (blobs module) *51*
Buttons (HOWL) *1077*

C

c (args module) *10*
CannotCreateDir (exceptions module) *307*
CannotFreeMemory (exceptions module) *308*
CannotRemoveDir (exceptions module) *307*
CannotRemoveFile (exceptions module) *307*
CannotRenameFile (exceptions module) *308*
Case insensitive character matching routines *600*
case macro *961*
cat (strings module) *905*
cat (zstrings module) *1004*
cat2 (blobs module) *49*
cat2 (strings module) *905*
cat3 (blobs module) *49*
cat3 (strings module) *905*
catb (strings module) *917*
catbool (strings module) *911*
catbuf (strings module) *910*
catbuf2 (blobs module) *50*
catbuf2 (strings module) *910*
catbuf3a (blobs module) *50*
catbuf3a (strings module) *910*
catbuf3b (blobs module) *51*
catbuf3b (strings module) *910*
catbuf4 (blobs module) *51*
catbuf4 (strings module) *910*
catc (strings module) *912*
catcset (strings module) *914*
catcSize (strings module) *913*
catd (strings module) *923*
cate32 (strings module) *953*
cate64 (strings module) *954*
cate80 (strings module) *954*
cath128 (strings module) *930*
cath128Size (strings module) *931*
cath16 (strings module) *921*
cath16Size (strings module) *922*
cath32 (strings module) *924*
cath32Size (strings module) *924*
cath64 (strings module) *926*

cath64Size (strings module) *926*
cath80 (strings module) *928*
cath80Size (strings module) *928*
cati128 (strings module) *940*
cati128Size (strings module) *941*
cati16 (strings module) *935*
cati16Size (strings module) *936*
cati32 (strings module) *937*
cati32Size (strings module) *937*
cati64 (strings module) *939*
cati64Size (strings module) *939*
cati8 (strings module) *932*
cati8Size (strings module) *934*
catl (strings module) *930*
catq (strings module) *925*
catr32 (strings module) *955*
catr64 (strings module) *956*
catr80 (strings module) *957*
cats (strings module) *915*
catsSize (strings module) *916*
catsub (blobs module) *49*
catsub (strings module) *907*
catsub4 (blobs module) *49*
catsub4 (strings module) *908*
catsub5 *49*
catsub5 (strings module) *908*
cattb (strings module) *928*
catu128 (strings module) *951*
catu128Size (strings module) *951*
catu16 (strings module) *945*
catu16Size (strings module) *946*
catu32 (strings module) *947*
catu32Size (strings module) *947*
catu64 (strings module) *949*
catu64Size (strings module) *949*
catu8 (strings module) *943*
catu8Size (strings module) *944*
catw (strings module) *920*
catz (strings module) *906*
cd (filesys module) *464*
CDFailed (exceptions module) *307*
Character classification *65*
Character concatenation functions *912*
Character insertion/removal functions (console module) *78*
Character matching functions *595*
Character set concatenation functions *912*
Character set construction *259*
Character set searching functions *863*
Character sets *251*
Character utilities *65*
charInStr (strings module) *874*
chars.isAlpha *66*
chars.isAlphaNum *68*
chars.isASCII *71*
chars.isCtrl *71*
chars.isDigit *68*
chars.isGraphic *70*
chars.isLower *67*
chars.isSpace *70*
chars.isUpper *67*
chars.isXDigit *69*
chars.toLower *65*
chars.toUpper *65*
charToCset (character sets) *262*
Check boxes (HOWL) *1022*
Checkable objects (HOWL) *1052*
checkPoint (timer class) *999*
chpos (blobs module) *47*
chpos (strings module) *858*
chpos2 (blobs module) *47*
chpos2 (strings module) *858*
chpos3 (blobs module) *47*
chpos3 (strings module) *858*
Circles (HOWL) *1027*
Class traits *819*
Clickable objects (HOWL) *1049*
Client applications (socket module) *638*
Client/Server applications *635*
Client/server communication *638*
client_t.close *639*
client_t.create *639*
client_t.destroy *639*
Close (file class module) *316*
Close (file I/O module) *344*
close (memory-mapped files module) *549*
Close (socket module) *639*
close (socket module) *627*
clrLn (console module) *77*
clrToBOLN (console module) *77*
clrToBOScrn (console module) *78*
clrToEOLN (console module) *77*
clrToEOScrn (console module) *78*
cls (console module) *77*
cmdLn (args module) *9*
cnt (bits module) *25*

coalese (bits module) *33*
cocall (coroutines module) *249*
cofree (coroutines module) *249*
columnize3 (strings module) *887*
columnize4 (strings module) *887*
Combo boxes (HOWL) *1090*
Combobox (HOWL) *1024*
Command-line arguments *9*
Compile-time traits (stl) *820*
Compiling HOWL applications *1014*
complement (character sets) *270*
Concatenation functions (blobs module) *48*
connect (socket module) *627*
Console clearing functions *76*
Console display control *73*
Console output colors *81*
Console scrolling *80*
console.clrLn *77*
console.clrToBOLN *77*
console.clrToBOScrn *78*
console.clrToEOLN *77*
console.clrToEOScrn *78*
console.cls *77*
console.deleteChar *79*
console.deleteChars *80*
console.deleteLine *80*
console.deleteLines *80*
console.down *74*
console.gotorc *73*
console.gotoxy *73*
console.home *77*
console.insertChar *78*
console.insertChars *78*
console.insertLine *79*
console.insertLines *79*
console.left *75*
console.ndown *75*
console.nleft *75*
console.nright *76*
console.nup *74*
console.restoreCursor *76*
console.right *75*
console.saveCursor *76*
console.scrollDown *81*
console.scrollUp *80*
console.setAttrs *81*
console.up *74*
Container objects (HOWL) *1059*
Containers (HOWL) *1061*
ControlC (exceptions module) *309*
conv.a_bToStr *117*
conv.a_dToStr *123*
conv.a_e32ToStr *236*
conv.a_e64ToStr *235*
conv.a_e80ToStr *234*
conv.a_h128ToStr *145*
conv.a_h16ToStr *136*
conv.a_h32ToStr *138*
conv.a_h64ToStr *141*
conv.a_h80ToStr *143*
conv.a_h8ToStr *132*
conv.a_i128ToStr *181*
conv.a_i16ToStr *173*
conv.a_i32ToStr *176*
conv.a_i64ToStr *178*
conv.a_i8ToStr *170*
conv.a_lToStr *129*
conv.a_qToStr *125*
conv.a_r32ToStr *243*
conv.a_r64ToStr *243*
conv.a_r80ToStr *242*
conv.a_roman *245*
conv.a_tbToStr *127*
conv.atof *244*
conv.atoi128 *185*
conv.atoi16 *183*
conv.atoi32 *184*
conv.atoi64 *185*
conv.atoi8 *182*
conv.atou128 *222*
conv.atou16 *220*
conv.atou32 *220*
conv.atou64 *221*
conv.atou8 *219*
conv.a_u128ToStr *217*
conv.a_u16ToStr *210*
conv.a_u32ToStr *213*
conv.a_u64ToStr *215*
conv.a_u8ToStr *206*
conv.a_wToStr *120*
conv.bSize *92*
conv.bToBuf *101*
conv.bToStr *115*
conv.dSize *93*
conv.dToBuf *103*

conv.dToStr *122*
conv.e32ToBuf *231*
conv.e32ToStr *234*
conv.e64ToBuf *231*
conv.e64ToStr *233*
conv.e80ToBuf *230*
conv.e80ToStr *232*
conv.getDelimiters *88*
conv.getUnderscores *87*
conv.h128Size *100*
conv.h128ToBuf *113*
conv.h128ToStr *144*
conv.h16Size *97*
conv.h16ToBuf *109*
conv.h16ToStr *134*
conv.h32Size *97*
conv.h32ToBuf *110*
conv.h32ToStr *137*
conv.h64Size *98*
conv.h64ToBuf *111*
conv.h64ToStr *139*
conv.h80Size *99*
conv.h80ToBuf *112*
conv.h80ToStr *142*
conv.h8Size *96*
conv.h8ToBuf *108*
conv.h8ToStr *130*
conv.hhf *83*
conv.i128Size *160*
conv.i128ToBuf *166*
conv.i128ToStr *179*
conv._i16Size *157*
conv.i16Size *158*
conv.i16ToBuf *163*
conv.i16ToStr *172*
conv.i32Size *159*
conv.i32ToBuf *164*
conv.i32ToStr *175*
conv.i64Size *159*
conv.i64ToBuf *165*
conv.i64ToStr *177*
conv.i8Size *157*
conv.i8ToBuf *162*
conv.i8ToStr *168*
conv._intToBuf128 *157*
conv._intToBuf128Size *157*
conv._intToBuf64Size *157*
conv.lSize *95*
conv.lToBuf *106*
conv.lToStr *128*
conv.qSize *94*
conv.qToBuf *104*
conv.qToStr *124*
conv.r32ToBuf *239*
conv.r32ToStr *241*
conv.r64ToBuf *238*
conv.r64ToStr *240*
conv.r80ToBuf *237*
conv.r80ToStr *240*
conv.roman *245*
conv.setDelimiters *89*
conv.setUnderscores *85*
conv.strToFlt *245*
conv.strToh128 *155*
conv.strToh16 *152*
conv.strToh32 *153*
conv.strToh64 *154*
conv.strToh8 *151*
conv.strToi128 *191*
conv.strToi16 *188*
conv.strToi32 *189*
conv.strToi64 *190*
conv.strToi8 *187*
conv.strTou128 *228*
conv.strTou16 *224*
conv.strTou32 *225*
conv.strTou64 *226*
conv.strTou8 *223*
conv.tbSize *94*
conv.tbToBuf *105*
conv.tbToStr *126*
conv.u128Size *196*
conv.u128ToBuf *202*
conv.u128ToStr *216*
conv._u16Size *193*
conv.u16Size *194*
conv.u16ToBuf *199*
conv.u16ToStr *208*
conv._u32Size *193*
conv.u32Size *195*
conv.u32ToBuf *200*
conv.u32ToStr *211*
conv.u64Size *195*
conv.u64ToBuf *201*
conv.u64ToStr *214*
conv._u8Size *193*

conv.u8Size *193*
conv.u8ToBuf *197*
conv.u8ToStr *204*
conv.wSize *93*
conv.wToBuf *102*
conv.wToStr *119*
Conversion format control *84*
Conversion functions (blobs module) *51*
ConversionError (exceptions module) *306*
Conversions *83*
coret (coroutines module) *250*
Coroutines *247*
coroutines.hhf *247*
coroutine_t.cocall *249*
coroutine_t.cofree *249*
coroutine_t.create *248*
_cos (math module) *522*
cos (math module) *522*
cos32 (math module) *522*
cos64 (math module) *522*
cos80 (math module) *522*
_cot (math module) *527*
cot (math module) *527*
cot32 (math module) *527*
cot64 (math module) *528*
cot80 (math module) *528*
Counting the number of set bits in an object *25*
cpy (arrays module) *18*
cpy (blobs module) *43*
cpy (character sets) *260*
cpy (strings module) *829*
cpy (zstrings module) *1004*
cpyz (strings module) *830*
create (coroutines module) *248*
create (file class module) *314*
create (list module) *492*
create (memory-mapped files module) *548*
create (socket module) *639*
create (tables module) *963– 964*
create (threads module) *967*
create (time class module) *993*
create (timer class) *998*
createCriticalSection (threads module) *973*
createEvent (threads module) *971*
createSemaphore (threads module) *974*
createTLS (threads module) *969*
create_wBase (HOWL) *1045*
create_wCheckable (HOWL) *1053*
create_wClickable (HOWL) *1050*
create_wFilledFrame (HOWL) *1055*
create_wSurface *1054*
Creating new list class types *490*
Critical sections *972*
cs.charToCset *262*
cs.complement *270*
cs.cpy *260*
cs.difference *269*
cs.empty *259*
cs.eq *257*
cs.extract *266*
cs.intersection *268*
cs.IsEmpty *251*
cs.member *252*
cs.ne *258*
cs.psubset *255*
cs.psuperset *256*
cs.rangeChar *263*
cs.removeChar *272*
cs.removeStr *275*
cs.removeStr2 *276*
cs.setunion *268*
cs.strToCset *265*
cs.subset *253*
cs.superset *254*
cs.unionChar *271*
cs.unionStr *273*
cs.unionStr2 *274*
_csc (math module) *529*
csc (math module) *529*
csc32 (math module) *529*
csc64 (math module) *529*
csc80 (math module) *529*
Current system time *986*
Cursor position within a pattern *610*
curTime (date/time module) *986*
curTime (time class module) *994*

D

daAlloc (arrays module) *16*
daFree (arrays module) *16*
dArray (arrays module) *15*
Date functions *279*
date.addDays *287*
date.addMonths *287*
date.addYears *288*

date.a_toString *291*
date.daterec *279*
date.dayNumber *285*
date.dayOfWeek *285*
date.daysBetween *286*
date.daysLeft *285*
date.fromJulian *284*, *298*
date.isLeapYear *281*
date.isValid *282*
date.outputFormat *280*
date.pack *283*
date.setFormat *290*
date.setSeparator *290*
date.subDays *288*
date.subMonths *288*
date.subYears *288*
date.today *289*, *299*
date.toJulian *283*
date.toString *291*
date.unpack *283*
date.utc *289*
date.validate *282*
daterec (date/time module) *279*
DateStarted (timer class) *998*
DateStopped (timer class) *998*
datetime.hhf *279*, *977*
dayNumber (date/time module) *285*, *298*
dayOfWeek (date/time module) *285*, *298*
daysBetween (date/time module) *286*, *298*
daysLeft (date/time module) *285*, *298*
Declaring Blob variables *36*
default macro *961*
Deferred evaluation *609*
Delay functions *561*
delete (args module) *11*
delete (filesys module) *463*
delete (lists module) *495*
delete (strings module) *838*
delete3 (strings module) *838*
delete4 (strings module) *838*
deleteChar (console module) *79*
deleteChars (console module) *80*
deleteCriticalSection (threads module) *973*
deleteEvent (threads module) *971*
delete_first (list module) *496*
delete_index (list module) *495*
delete_last (list module) *496*
deleteLine (console module) *80*
deleteLines (console module) *80*
delete_node (list module) *496*
deleteSemaphore (threads module) *975*
delLeadingSpaces (strings module) *839*
delLeadingSpaces1 (strings module) *840*
delLeadingSpaces2 (strings module) *840*
delTrailingSpaces (strings module) *841*
delTrailingSpaces1 (strings module) *841*
delTrailingSpaces2 (strings module) *841*
Deque (stl) *824*
destroy (args module) *12*
destroy (blobs module) *39*
destroy (HOWL) *1045*
destroy (list module) *492*
destroy (memory-mapped files module) *548*
destroy (socket module) *639*
destroy (tables module) *963– 964*
deTab2 (strings module) *891*
deTab3a (strings module) *892*
deTab3b (strings module) *892*
deTab4 (strings module) *893*
difference (character sets) *269*
difference (date/time module) *298*
difference (time class module) *994*
Directory and File manipulation functions *463*
Directory and file predicates *461*
dirIn (filesys module) *467*
dirInCwd (filesys module) *467*
disable (HOWL) *1046*, *1049*
DiskFullError (exceptions module) *307*
distribute (bits module) *32*
DivideError (exceptions module) *310*
divl (math module) *513*
divq (math routine) *504*
down (console module) *74*
Drag list boxes (HOWL) *1090*
dSize (conversions module) *93*
dtClass.make_timeClass *989*
dToBuf (conversions module) *103*
dToStr (conversions module) *122*
durationToSecs (time module) *980*

E

e32ToBuf (conversions module) *231*
e32ToStr (conversions module) *234*

e64ToBuf (conversions module) *231*
e64ToStr (conversions module) *233*
e80ToBuf (conversions module) *230*
e80ToStr (conversions module) *232*
Eager evaluation *609*
Edit boxes (HOWL) *1025*, *1086*
Editors (HOWL) *1086*
element (arrays module) *17*
elementsAreObjects_c (stl) *820–821*, *823*
Ellipses (HOWL) *1026*
empty (character sets) *259*
enable (HOWL) *1046*, *1049*
enabled (HOWL) *1045*
endMatch (pattern matching module) *587*
EndOfFile (exceptions module) *307*
endreduce (arrays module) *19*
endswitch macro *961*
endwForm *1008*, *1018*
endwMainMenu *1019*
endwRadioSet *1033*
endwSubMenu *1020*
enTab2 (strings module) *895*
enTab3a (strings module) *896*
enTab3b (strings module) *896*
enTab4 (strings module) *897*
enterCriticalSection (threads module) *973*
env.a_get *301*
env.get *301*
env.hhf *301*
Environment variables *301*
eof (blobs module) *42*
eof (file I/O module) *346*
eoln (blobs module) *64*
eoln (file I/O module) *427*
eoln (stdin module) *737*
eoln2 (stdin module) *737*
eq (blobs module) *45*
eq (character sets) *257*
eq (strings module) *844*
Events (threads module) *971*
ex.AccessDenied *307*
ex.AccessViolation *309*
ex.ArrayBounds *308*
ex.ArrayShapeViolation *308*
ex.AssertionFailed *306*
ex.AttemptToDerefNULL *306*
ex.AttemptToFreeNULL *308*
ex.BadFileHandle *306*
ex.BadObjPtr *306*
ex.BlockAlreadyFree *308*
ex.BoundInstr *310*
ex.Breakpoint *309*
ex.CannotCreateDir *307*
ex.CannotFreeMemory *308*
ex.CannotRemoveDir *307*
ex.CannotRemoveFile *307*
ex.CannotRenameFile *308*
ex.CDFailed *307*
ex.ControlC *309*
ex.ConversionError *306*
ex.DiskFullError *307*
ex.DivideError *310*
ex.EndOfFile *307*
ex.exceptionMsg *311*
ex.ExecutedAbstract *306*
ex.fDenormal *310*
ex.fDivByZero *310*
ex.FileCloseError *307*
ex.FileNotFound *306*
ex.FileOpenFailure *307*
ex.FileReadError *307*
ex.FileSeekError *307*
ex.FileWriteError *307*
ex.fInexactResult *310*
ex.fInvalidOperation *310*
ex.fOverflow *310*
ex.fStackCheck *310*
ex.fUnderflow *310*
ex.IllegalChar *306*
ex.IllegalInstr *309*
ex.InPageError *309*
ex.IntoInstr *310*
ex.InvalidAlignment *306*
ex.InvalidDate *308*
ex.InvalidDateFormat *308*
ex.InvalidHandle *309*
ex.InvalidTime *309*
ex.InvalidTimeFormat *309*
ex.MemoryAllocationFailure *308*
ex.MemoryFreeFailure *308*
ex.NoMemory *309*
ex.PointerNotInHeap *308*
ex.printExceptionError *311*
ex.PrivInstr *309*
ex.SingleStep *309*

ex.StackOverflow *309*
ex.StringIndexError *305*
ex.StringOverflow *305*
ex.TimeOverflow *309*
ex.TooManyCmdLnParms *306*
ex.ValueOutOfRange *305*
ex.WidthTooBig *306*
exactlyNChar (patterns module) *597*
exactlyNCset (patterns module) *593*
exactlyNiChar (patterns module) *602*
exactlyNtoMChar (patterns module) *599*
exactlyNtoMCset (patterns module) *595*
exactlyNtoMiChar (pattern matching module) *604*
exceptionMsg (exceptions module) *311*
Exceptions *303*
excepts.hhf *303*
ExecutedAbstract (exceptions module) *306*
exists (filesys module) *461*
_exp (math module) *540*
exp (math module) *540*
exp32 (math module) *540*
exp64 (math module) *540*
exp80 (math module) *540*
Extended-precsion arithmetic functions *503*
extract (bits module) *32*
extract (character sets) *266*
extract (patterns module) *606*
extractExt (filesys module) *450*
extractFilename (filesys module) *451*
Extraction functions (blobs module) *44*
extractPath (filesys module) *453*

F

fail (patterns module) *588*
fastAppend_c (stl) *820– 821*, *823*
fastElementSwap_c (stl) *820– 821*, *824*
fastInsert_c (stl) *820– 821*, *823*
fastPrepend_c (stl) *820– 821*, *823*
fastRemove_c (stl) *820– 821*, *823*
fastSearch_c (stl) *820– 821*, *824*
fastSwap_c (stl) *820– 821*, *824*
fd_clr (socket module) *633*
fDenormal (exceptions module) *310*
fd_isset (socket module) *633*
fDivByZero (exceptions module) *310*
fd_set (socket module) *633*
fd_zero (socket module) *633*
fence (patterns module) *588*
File class *313*
File I/O module *341*
File information functions *462*
File input routines *425*
File system routines *445*
file.create *314*
fileclass.hhf *313*
FileCloseError (exceptions module) *307*
fileIn (filesys module) *465*
fileInCwd (filesys module) *466*
fileio.a_gets *429*
fileio.append *348*
fileio.Close *344*
fileio.eof *346*
fileio.eoln *427*
fileio.flush *345*
fileio.get (fileio module) *443*
fileio.getc *428*
fileio.getf *442*
fileio.geth128 *441*
fileio.geth16 *438*
fileio.geth32 *439*
fileio.geth64 *440*
fileio.geth8 *437*
fileio.geti128 *433*
fileio.geti16 *430*
fileio.geti32 *431*
fileio.geti64 *432*
fileio.geti8 *430*
fileio.gets *428*
fileio.getu128 *436*
fileio.getu16 *435*
fileio.getu32 *435*
fileio.getu64 *436*
fileio.getu8 *434*
fileio.hhf *341*
fileio.newln *356*
fileio.Open *341*
fileio.OpenNew *343*
fileio.position *349*
fileio.put *424*
fileio.putb *365*
fileio.putbool *357*
fileio.putc *358*
fileio.putcset *361*
fileio.putcsize *360*

fileio.putd *373*
fileio.pute32 *416*, *807*
fileio.pute64 *417*
fileio.pute80 *418*
fileio.puth128 *385*
fileio.puth128Size *386*
fileio.puth16 *370*
fileio.puth16Size *371*
fileio.puth32 *374*
fileio.puth32Size *375*
fileio.puth64Size *378*
fileio.puth8 *366*
fileio.puth80 *381*
fileio.puth80Size *382*
fileio.puth8Size *367*
fileio.puti128 *399*
fileio.puti128size *400*
fileio.puti16Size *393*
fileio.puti16size *391*
fileio.puti32 *394*
fileio.puti32Size *395*
fileio.puti64 *397*
fileio.puti64size *398*
fileio.puti8 *388*
fileio.putl *384*
fileio.putq *377*
fileio.putr32 *420*
fileio.putr64 *421*
fileio.putr80 *423*
fileio.puts *362*
fileio.putssize *363*
fileio.puttb *380*
fileio.putu128 *413*
fileio.putu128size *414*
fileio.putu16 *405*
fileio.putu16size (file I/O module) *407*
fileio.putu32 *408*
fileio.putu32size *409*
fileio.putu64 *411*
fileio.putu64size *412*
fileio.putu8 *402*
fileio.putu8size *404*
fileio.putw *369*
fileio.read *425*
fileio.ReadLn *426*
fileio.rewind *347*
fileio.rSeek *351*
fileio.seek *350*
fileio.size *353*
fileio.truncate *352*
fileio.write *354*
Filename and pathname string functions *445*
FileNotFound (exceptions module) *306*
FileOpenFailure *307*
FileReadError (exceptions module) *307*
FileSeekError (exceptions module) *307*
filesys.a_extractBase *448*
filesys.a_extractExt *450*
filesys.a_extractFilename *451*
filesys.a_extractPath *452*
filesys.a_getFullPathName *460*
filesys.a_joinPaths *453*
filesys.a_normalize *455*
filesys.a_toNativePath *460*
filesys.a_toUnixPath *457*
filesys.a_toWin32Path *458*
filesys.cd *464*
filesys.delete *463*
filesys.dirIn *467*
filesys.dirInCwd *467*
filesys.exists *461*
filesys.extractExt *450*
filesys.extractFilename *451*
filesys.extractPath *453*
filesys.fileIn *465*
filesys.fileInCwd *466*
filesys.fileWithSuffix *465*
filesys.getFullPath *460*
filesys.gwd *464*
filesys.hasDriveLetter *445*
filesys.hasExtension *446*
filesys.hasPath *448*
filesys.hasUncName *447*
filesys.hhf *445*
filesys.isDir *462*
filesys.isFile *461*
filesys.itemInCwd *468*
filesys.itemWithSuffix *468*
filesys.joinPaths *454*
filesys.mkdir *463*
filesys.normalize1 *456*
filesys.normalize2 *456*
filesys.rename *464*
filesys.rmdir *465*
filesys.size *462*

filesys.toNativePath1 *460*
filesys.toNativePath2 *460*
filesys.toUnixPath1 *457*
filesys.toUnixPath2 *458*
filesys.toWin32Path1 *459*
filesys.toWin32Path2 *459*
filevar.a_gets *334*
filevar.Close *316*
filevar.get *339*
filevar.getc *333*
filevar.getf *339*
filevar.geth128 *339*
filevar.geth16 *338*
filevar.geth32 *338*
filevar.geth64 *338*
filevar.geth8 *337*
filevar.geti128 *336*
filevar.geti16 *335*
filevar.geti32 *335*
filevar.geti64 *335*
filevar.geti8 *334*
filevar.gets *333*
filevar.getu16 *336*
filevar.getu32 *336*
filevar.getu64 *337*
filevar.getu8 *336*
filevar.handle *315*
filevar.newln *318*
filevar.Open *315*
filevar.OpenNew *315*
filevar.put *332*
filevar.putb *319*
filevar.putbool *317*
filevar.putc *318*
filevar.putcset *318*
filevar.putcsize *318*
filevar.putd *321*
filevar.pute32 *329*
filevar.pute64 *329*
filevar.pute80 *330*
filevar.puth16Size *321*
filevar.puth64Size *322*
filevar.puth8Size *320*
filevar.puti128 *326*
filevar.puti128size *326*
filevar.puti16 *324*
filevar.puti16size *325*
filevar.puti32 *325*
filevar.puti32size *325*
filevar.puti64 *325*
filevar.puti64size *325*
filevar.putr32 *330*
filevar.putr64 *331*
filevar.puts *319*
filevar.putssize *319*
filevar.puttb *322*
filevar.putu16size *327*
filevar.putu8 *326*
filevar.putw *320*
filevar.read *333*
filevar.ReadLn *333*
filevar.write *317*
fileWithSuffix (filesys module) *465*
FileWriteError (exceptions module) *307*
fillb (blobs module) *43*
filld (blobs module) *44*
fillw (blobs module) *43*
filteredNodeInList (lists module) *498*
filteredNodeInListReversed (lists module) *498*
findInCset (strings module) *867*
findInCset2 (strings module) *867*
findInCset3 (strings module) *867*
fInexactResult (exceptions module) *310*
fInvalidOperation (exceptions module) *310*
first (strings module) *832*
first2 (strings module) *832*
first3 (strings module) *832*
firstNChar (patterns module) *598*
firstNCset (patterns module) *593*
firstNiChar (patterns module) *602*
Fixed length hexadecimal numeric to nuffer conversions *101*
Fixed size hexadecimal size functions *92*
Floating-point concatenation functions *952*
Floating-point functions *520*
Floating-point numeric output using scientific notation (socket module) *654*
Floating-point numeric to buffer conversions, exponential form *230*
flush (file I/O module) *345*
FlushInput (stdin module) *737*
Forms (HOWL) *1061*
fOverflow (exceptions module) *310*

free (blobs module) *39*
free (memory module) *553*
freeBlockInHeap (memory module) *558*
fromJulian (date/time module) *284*, *298*
fromSecs (time class module) *993*
fromSecs (time module) *981*
fromUnixTime (time module) *982*
fromWinFileTime (time module) *983*
fStackCheck (exceptions module) *310*
fUnderflow (exceptions module) *310*

G

ge (strings module) *847*
get (blobs module) *64*
get (environment module) *301*
get (file class module) *339*
get (fileio module) *443*
get (socket module) *665*
get (stdin module) *747*
getAdrs (socket module) *641*
getByte (blobs module) *60*
getc (blobs module) *64*
getc (file class module) *333*
getc (file I/O module) *428*
getc (socket module) *659*
getc (stdin module) *738*
getCurrentThreadHandle (threads module) *969*
getDelimiters (conversions module) *88*
getDword (blobs module) *61*
get_enabled (HOWL) *1046*
get_exStyle (HOWL) *1048*
getf (blobs module) *64*
getf (file class module) *339*
getf (file I/O module) *442*
getf (socket module) *664*
getf (stdin module) *747*
getField3 (strings module) *877*
getField4 (strings module) *877*
getFileName (memory-mapped files module) *549*
getFullPath (filesys module) *460*
geth128 (blobs module) *64*
geth128 (file class module) *339*
geth128 (file I/O module) *441*
geth128 (socket module) *664*
geth128 (stdin module) *741*
geth16 (blobs module) *64*
geth16 (file class module) *338*
geth16 (file I/O module) *438*
geth16 (socket module) *663*
geth16 (stdin module) *740*
geth32 (blobs module) *64*
geth32 (file class module) *338*
geth32 (file I/O module) *439*
geth32 (socket module) *663*
geth32 (stdin module) *740*
geth64 (blobs module) *64*
geth64 (file class module) *338*
geth64 (file I/O module) *440*
geth64 (socket module) *664*
geth64 (stdin module) *741*
geth8 (blobs module) *64*
geth8 (file class module) *337*
geth8 (file I/O module) *437*
geth8 (socket module) *663*
geth8 (stdin module) *739*
geth80 (blobs module) *64*
get_handle (HOWL) *1046*
get_height (HOWL) *1048*
gethostbyaddr (socket module) *633*
gethostbyname (socket module) *632*
gethostname (socket module) *632*
geti128 (blobs module) *64*
geti128 (file class module) *336*
geti128 (file I/O module) *433*
geti128 (socket module) *661*
geti128 (stdin module) *744*
geti16 (blobs module) *64*
geti16 (file class module) *335*
geti16 (file I/O module) *430*
geti16 (socket module) *660*
geti16 (stdin module) *742*
geti32 (blobs module) *64*
geti32 (file class module) *335*
geti32 (file I/O module) *431*
geti32 (socket module) *660*
geti32 (stdin module) *743*
geti64 (blobs module) *64*
geti64 (file class module) *335*
geti64 (file I/O module) *432*
geti64 (socket module) *661*
geti64 (stdin module) *743*
geti8 (blobs module) *64*
geti8 (file class module) *334*
geti8 (file I/O module) *430*
geti8 (socket module) *660*

geti8 (stdin module) *742*
getLword (blobs module) *62*
getMalloc (memory-mapped files module) *550*
getNode (tables module) *963*, *966*
get_objectID (HOWL) *1046*
get_onHeap (HOWL) *1046*
getOpen (memory-mapped files module) *549*
get_parentForm (HOWL) *1046*
get_parentHandle (HOWL) *1046*, *1048*
getpeername (socket module) *633*
getPort (socket class module) *642*
getPos (patterns module) *588*
getQword (blobs module) *62*
getref (memory module) *556*, *559*
gets (blobs module) *64*
gets (file class module) *334*
gets (file I/O module) *428*
gets (socket module) *659*
gets (stdin module) *738*
getsockname (socket module) *633*
get_style (HOWL) *1048*
getTbyte (blobs module) *62*
getTimeout (socket class module) *641*
getTLS (threads module) *970*
getu128 (blobs module) *64*
getu128 (file class module) *337*
getu128 (file I/O module) *436*
getu128 (socket module) *662*
getu128 (stdin module) *746*
getu16 (blobs module) *64*
getu16 (file class module) *336*
getu16 (file I/O module) *435*
getu16 (socket module) *662*
getu16 (stdin module) *745*
getu32 (blobs module) *64*
getu32 (file class module) *336*
getu32 (file I/O module) *435*
getu32 (socket module) *662*
getu32 (stdin module) *745*
getu64 (blobs module) *64*
getu64 (file class module) *337*
getu64 (file I/O module) *436*
getu64 (socket module) *662*
getu64 (stdin module) *746*
getu8 (blobs module) *64*
getu8 (file class module) *336*
getu8 (file I/O module) *434*
getu8 (socket module) *661*
getu8 (stdin module) *744*
get_visible (HOWL) *1046*
getWhiteSpace (patterns module) *607*
get_width (HOWL) *1048*
getWord (blobs module) *61*
getWordDelims (patterns module) *606*
get_x (HOWL) *1048*
get_y (HOWL) *1048*
globalOptions (args module) *12*
gotorc (console module) *73*
gotoxy (console module) *73*
Graphic objects (HOWL) *1068*
gt (strings module) *846*
gwd (filesys module) *464*

H

h128Size (conversions module) *100*
h128ToBuf (conversions module) *113*
h128ToStr (conversions module) *144*
h16Size (conversions module) *97*
h16ToBuf (conversions module) *109*
h16ToStr (conversions module) *134*
h32Size (conversions module) *97*
h32ToBuf (conversions module) *110*
h32ToStr (conversions module) *137*
h64Size (conversions module) *98*
h64ToBuf (conversions module) *111*
h64ToStr (conversions module) *139*
h80Size (conversions module) *99*
h80ToBuf (conversions module) *112*
h80ToStr *142*
h8Size (conversions module) *96*
h8ToBuf (conversions module) *108*
h8ToStr (conversions module) *130*
handle (file class module) *315*
handle (HOWL) *1044*
handle (stdin module) *735*
handle (stdio module) *749*
hasDriveLetter (filesys module) *445*
hasExtension (filesys module) *446*
hasPath (filesys module) *448*
hasUncName (filesys module) *447*
Hexadecimal concatenation functions *917*
Hexadecimal conversions *91*
Hexadecimal input from a socket *663*
Hexadecimal numeric size functions *92*
Hexadecimal numeric to buffer conver-

sions *101*
Hexadecimal numeric to string conversions *115*
Hexadecimal size functions *96*
hide (HOWL) *1046*, *1049*
High-level language statements *961*
HLA macros and constants *469*
HLA Object Windows Library *1007*
HLA string data type *825*
hla.asDword *470*
hla.asWord *470*
hla.hhf *469*
hla.IsHex *469*
hla.IsInt *469*
hla.IsNumber *469*
hla.IsNumeric *470*
hla.IsOrdinal *470*
hla.IsReal *469*
hla.IsUns *469*
_hla.make_listClass *490*
hll.cswitch *962*
hll.usebubblesort *962*
home (console module) *77*
HOWL *1007*
HOWL Declarative Language *1017*
HOWL object hierarchy *1042*
HOWL Run-time Library *1041*
HowlMainApp *1007*

I

i128Size (conversions module) *160*
i128TBuf (conversions module) *166*
i128ToStr (conversions module) *179*
_i16Size (conversions module) *157*
i16Size (conversions module) *158*
i16ToBuf (conversions module) *163*
i16ToStr (conversions module) *172*
i32Size (conversions module) *159*
i32ToBuf (conversions module) *164*
i32ToStr (conversions module) *175*
i64Size (conversions module) *159*
i64ToBuf (conversions module) *165*
i64ToStr (conversions module) *177*
i8Size (conversions module) *157*
i8ToBuf (conversions module) *162*
i8ToStr (conversions module) *168*
ichpos (strings module) *859*
ichpos2 (strings module) *859*
ichpos3 (strings module) *859*
Icons (HOWL) *1111*
idivl (math module) *513*
idivq (math module) *505*
ieq (strings module) *847*
ige (strings module) *849*
igt (strings module) *849*
iindex (strings module) *853*
iindex3 (strings module) *854*
ile (strings module) *849*
IllegalChar (exceptions module) *306*
IllegalInstr (exceptions module) *309*
ilt (strings module) *848*
imodl (math module) *515*
imodq (math module) *506*
imull (math module) *516*
imulq (math module) *507*
index (arrays module) *17*
index (blobs module) *46*
index (list module) *497*
index (strings module) *852*
index2 (blobs module) *46*
index2 (strings module) *852*
index3 (blobs module) *46*
index3 (strings module) *852*
indexStr *46*
indexStr2 (blobs module) *46*
indexStr3 (blobs module) *46*
ine (strings module) *848*
init (blobs module) *37*
init (strings module) *827*
init16 (blobs module) *37*
Initializing and allocating blob variables *37*
InPageError (exceptions module) *309*
insert (lists module) *494*
insert (strings module) *836*
insert3 (strings module) *836*
insert4 (strings module) *837*
insertChar (console module) *78*
insertChars (console module) *78*
insert_first (list module) *495*
insert_index (list module) *494*
insertLine (console module) *79*
insertLines (console module) *79*
insert_node (list module) *495*
intersection (character sets) *268*
IntoInstr (exceptions module) *310*
_intToBuf128 (conversions module) *157*

_intToBuf128Size (conversions module) *157*
_intToBuf32 (conversions module) *157*
_intToBuf32Size (conversions module) *157*
_intToBuf64Size (conversions module) *157*
InvalidArgument (exceptions module) *306*
InvalidDate (exceptions module) *308*
InvalidDateFormat (exceptions module) *308*
InvalidHandle (exceptions module) *309*
InvalidTime (exceptions module) *309*
InvalidTimeFormat (exceptions module) *309*
irchpos (strings module) *861*
irchpos2 (strings module) *862*
irchpos3 (strings module) *862*
irindex (strings module) *856*
irindex2 (strings module) *856*
irindex3 (strings module) *857*
isAlloc field in stl classes *824*
isAlpha (chars module) *66*
isAlphaNum (chars module) *68*
IsArray_c (stl) *820– 821*
isArray_c (stl) *822*
isASCII (chars module) *71*
isContainer_c (stl) *820– 821*
isCtrl (chars module) *71*
isDeque_c (stl) *820– 822*
isDigit (chars module) *68*
isDir (filesys module) *462*
IsEmpty (character sets) *251*
isFile (filesys module) *461*
isGraphic (chars module) *70*
IsHex (HLA module) *469*
isInHeap (memory module) *554*
IsInt (HLA module) *469*
IsItDynamic (arrays module) *17*
IsItVar (arrays module) *17*
isLeapYear (date/time module) *281*, *298*
isList_c (stl) *820– 822*
isLower (chars module) *67*
IsNumber (HLA module) *469*
IsNumeric (HLA module) *470*
IsOrdinal (HLA module) *470*
isRandomAccess_c (stl) *820– 822*
IsReal (HLA module) *469*
isSpace (chars module) *70*
isSTL_c *819*
isTable_c (stl) *820– 822*
IsUns (HLA module) *469*
isUpper (chars module) *67*
isValid (date/time module) *282*, *298*
isValid (time class module) *993*
_isValid (time module) *979*
isValid (time module) *979*
isValue (date/time module) *979*
isVector_c (stl) *820– 821*
isXDigit (chars module) *69*
item (tables module) *963*
itemInCwd (filesys module) *468*
itemWithSuffix (filesys module) *468*

J

joinPaths (filesys module) *454*

L

l_arb (patterns module) *609*
last (strings module) *833*
last2 (strings module) *833*
last3 (strings module) *834*
Lazy/deferred evaluation *609*
le (strings module) *846*
leaveCriticalSection (threads module) *974*
left (console module) *75*
Left-text check boxes *1022*
Left-text radio buttons (HOWL) *1033*
Left-text radio set buttons (HOWL) *1034*
len (zstrings module) *1002*
length (blobs module) *39*
length (strings module) *828*
l_ExactlyNtoMChar (patterns module) *600*
l_ExactlyNtoMCset (patterns module) *595*
l_ExactlyNtoMiChar (patterns module) *604*
Linux *485*
linux.hhf *485*
List (stl) *824*
List boxes (HOWL) *1029*, *1090*
List constructor and destructor *492*
List procedures, methods, and iterators *491*
list.append_index *493*
list.append_last *494*

list.append_node *493*
list.create *492*
list.delete_first *496*
list.delete_index *495*
list.delete_last *496*
list.delete_node *496*
list.destroy *492*
list.index *497*
list.insert_first *495*
list.insert_index *494*
list.insert_node *495*
list.numNodes *493*
listen (socket module) *627*
Lists *487*
lists.hhf *487*
list_t (lists module) *487*
list_t.append *493*
list_t.delete *495*
list_t.filteredNodeInList *498*
list_t.filteredNodeInListReversed *498*
list_t.insert *494*
list_t.nodeInList *497*
list_t.nodeInListReversed *497*
list_t.reverse *499*
list_t.search *500*
list_t.sort *500*
list_t.xchgNodes *500*
_ln (math module) *544*
ln (math module) *544*
ln32 (math module) *544*
ln64 (math module) *544*
ln80 (math module) *544*
l_NorLessChar (patterns module) *598*
l_NorLessCset (patterns module) *593*
l_NorLessiChar (patterns module) *603*
l_NorMoreChar (patterns module) *599*
l_NorMoreCset (patterns module) *594*
l_NorMoreiChar (patterns module) *603*
l_NtoMChar (patterns module) *599*
l_NtoMCset (patterns module) *594*
l_NtoMiChar (patterns module) *604*
load (blobs module) *53*
localOptions (args module) *13*
_log (math module) *543*
log (math module) *543*
log32 (math module) *543*
log64 (math module) *543*
log80 (math module) *543*
Logarithmic arithmetic operations *520*
l_OneOrMoreChar (patterns module) *597*
l_OneOrMoreCset (patterns module) *592*
l_OneOrMoreiChar (patterns module) *602*
lookup (tables module) *963*, *965*
Lookup tables *22*
lookupTable (arrays module) *22*
lower (strings module) *900*
lower1 (strings module) *900*
lower2 (strings module) *900*
lSize (conversions module) *95*
lt (strings module) *845*
lToBuf (conversions module) *106*
lToStr (conversions module) *128*
l_ZeroOrMoreChar (patterns module) *597*
l_ZeroOrMoreCset (patterns module) *592*
l_ZeroOrMoreiChar (patterns module) *601*
l_ZeroOrOneChar (patterns module) *596*
l_ZeroOrOneCset (patterns module) *591*
l_ZeroOrOneiChar (patterns module) *601*

M

make_timeClass (time class module) *989*
match (pattern matching module) *587*
Matching an arbitrary sequence of characters *608*
matchiStr (patterns module) *605*
matchiWord (patterns module) *606*
matchStr (patterns module) *604*
matchToiStr (patterns module) *605*
matchToStr (patterns module) *605*
matchWord (patterns module) *605*
Math functions *503*
math._acos *532*
math.acos *532*
math.acos32 *533*
math.acos64 *533*
math.acos80 *533*
math._acot *534*
math.acot *534*
math.acot32 *534*
math.acot64 *534*
math.acot80 *534*
math._acsc *535*
math.acsc *535*
math.acsc32 *535*
math.acsc64 *535*
math.acsc80 *535*

math.addl *512*
math.addq *503*
math.andl *517*
math.andq *508*
math._asec *536*
math.asec *536*
math.asec32 *536*
math.asec64 *536*
math.asec80 *536*
math._asin *531*
math.asin *531*
math.asin32 *531*
math.asin64 *531*
math.asin80 *531*
math._atan *526*
math.atan *526*
math.atan32 *526*
math.atan64 *526*
math.atan80 *526*
math._cos *522*
math.cos *522*
math.cos32 *522*
math.cos64 *522*
math.cos80 *522*
math._cot *527*
math.cot32 *527*
math.cot64 *528*
math.cot80 *528*
math._csc *529*
math.csc32 *529*
math.csc64 *529*
math.csc80 *529*
math.divl *513*
math._exp *540*
math.exp *540*
math.exp32 *540*
math.exp64 *540*
math.exp80 *540*
math.hhf *503*
math.idivl *513*
math.idivq *505*
math.imodl *515*
math.imodq *506*
math.imull *516*
math.imulq *507*
math._ln *544*
math.ln *544*
math.ln32 *544*
math.ln64 *544*
math.ln80 *544*
math._log *543*
math.log *543*
math.log32 *543*
math.log64 *543*
math.log80 *543*
math.modl *514*
math.modq *506*
math.mull *515*
math.mulq *507*
math.negl *516*
math.negq *508*
math.notl *519*
math.notq *510*
math.orl *518*
math.orq *509*
math._sec *530*
math.sec32 *530*
math.sec64 *530*
math.sec80 *530*
math.shll *519*
math.shlq *510*
math.shrl *520*
math.shrq *511*
math._sin *521*
math.sin *521*
math.sin32 *521*
math.sin64 *521*
math.sin80 *521*
math._sincos *525*
math.sincos *525*
math.sincos32 *525*
math.sincos64 *525*
math.sincos80 *525*
math.subl *512*
math.subq *504*
math._tan *524*
math.tan *524*
math.tan32 *524*
math.tan64 *524*
math.tan80 *524*
math.TenToX *539*
math._tenToX *539*
math.tenToX32 *539*
math.tenToX64 *539*
math.tenToX80 *539*
math.TwoToX *538*

math._twoToX *538*
math.twoToX32 *538*
math.twoToX64 *538*
math.twoToX80 *538*
math.xorl *518*
math.xorq *509*
math._YtoX *541*
math.ytoX *541*
math.YtoX32 *541*
math.YtoX64 *541*
math.YtoX80 *541*
maxlen (blobs module) *40*
mem.alloc *551*
mem.alloc1 (memory module) *551*
mem.alloc2 (memory module) *552*
mem.allocBlockInHeap *557*
mem.blockInHeap (memory module) *557*
mem.free *553*
mem.freeBlockInHeap *558*
mem.getref *556*
mem.isInHeap *554*
mem.isInHeap (memory module) *554*
mem.newref *556*
mem.realloc *553*
mem.realloc1 *553*
mem.realloc2 *553*
mem.size *555*
mem.stat *555*
mem.talloc *554*
mem.zalloc *552*
member (character sets) *252*
Memory management *551*
memory.hhf *551*
MemoryAllocationFailure (exceptions module) *308*
MemoryFreeFailure (exceptions module) *308*
Memory-mapped I/O *547*
Menu separator items *1020*
Menu widgets (HOWL) *1019*
Menus (HOWL) *1061*
merge32, merge16, merge8 (bits module) *28*
mkdir (filesys module) *463*
mmap.hhf *547*
mmap_t.close *549*
mmap_t.create *548*
mmap_t.destroy *548*
mmap_t.getFileName *549*
mmap_t.getMalloc *550*
mmap_t.getOpen *549*
mmap_t.open *548*
mmap_t.openNew *548*
modl (math module) *514*
modq (math module) *506*
move (HOWL) *1048*
mSleep (os module) *562*
msStarted (timer class) *998*
msStopped (timer class) *998*
mull (math module) *515*
mulq (math module) *507*

N

_name (HOWL) *1045*
ndown (console module) *75*
ne (blobs module) *45*
ne (character sets) *258*
ne (strings module) *845*
negl (math module) *516*
negq (math module) *508*
newln (blobs module) *63*
newln (file class module) *318*
newln (file I/O module) *356*
newln (socket module) *643*
newln (stderr module) *669*
newln (stdout module) *751*
newref (memory module) *556*
nextWidget (HOWL) *1045*
nibbles32, nibbles16, nibbles8 (bits module) *30*
nleft (console module) *75*
nodeInList (lists module) *497*
nodeInListReversed (lists module) *497*
nodePtr_t (lists module) *487*
NoMemory (exceptions module) *309*
norLessChar (patterns module) *598*
norLessCset (patterns module) *593*
norLessiChar (patterns module) *602*
normalize1 (filesys module) *456*
normalize2 (filesys module) *456*
norMoreChar (patterns module) *598*
norMoreCset (patterns module) *594*
norMoreiChar (patterns module) *603*
notl (math module) *519*
notq (math routine) *510*
nright (console module) *76*
ntoMChar (patterns module) *599*, *603*

ntoMCset (patterns module) *594*
numNodes (list module) *493*
nup (console module) *74*
O
objectID (HOWL) *1045*
onClick (HOWL) *1050*
onClose (HOWL) *1049*
onCreate (HOWL) *1049*
onDblClick (HOWL) *1050*
oneChar (patterns module) *596*
oneCset (patterns module) *590*
oneiChar (patterns module) *600*
oneOrMoreChar (patterns module) *597*
oneOrMoreCset (patterns module) *592*
oneOrMoreiChar (patterns module) *601*
oneOrMorePat (patterns module) *590*
oneOrMoreWS (patterns module) *608*
onePat (patterns module) *589*
One-shot timers (HOWL) *1121*
onHeap (HOWL) *1045*
onPaint (HOWL) *1054*
Open (file class module) *315*
Open (file I/O module) *341*
open (memory-mapped files module) *548*
OpenNew (file class module) *315*
OpenNew (file I/O module) *343*
openNew (memory-mapped files module) *548*
orl (math module) *518*
orq (math routine) *509*
OS functions *561*
os.hhf *561*
os.mSleep *562*
os.sleep *562*
os.system *561*
OutputFormat (date/time module) *280*
P
pack (date/time module) *283*
pack (time module) *980*
parentForm (HOWL) *1045*
parentHandle (HOWL) *1045*
Passing byte parameters on the stack *3*
Passing dword parameters on the stack *5*
Passing lword parameters on the stack *7*
Passing parameters by reference and by value *2*
Passing parameters to Standard Library routines *1*
Passing qword parameters on the stack *6*
Passing tbyte parameters on the stack *7*
Passing word parameters on the stack *5*
Passwords (HOWL) *1029*
pat.a_extract *607*
pat.arb *608*
pat.atPos *588*
pat.endMatch *587*
pat.exactlyNChar *597*
pat.exactlyNCset *593*
pat.exactlyNiChar *602*
pat.exactlyNtoMChar *599*
pat.exactlyNtoMCset *595*
pat.exactlyNtoMiChar *604*
pat.extract *606*
pat.fail *588*
pat.FailRec object *612*
pat.fence *588*
pat.firstNChar *598*
pat.firstNCset *593*
pat.firstNiChar *602*
pat.getPos *588*
pat.getWhiteSpace *607*
pat.getWordDelims *606*
pat.l_arb *609*
pat.l_ExactlyNtoMChar *600*
pat.l_ExactlyNtoMCset *595*
pat.l_ExactlyNtoMiChar *604*
pat.l_NorLessChar *598*
pat.l_NorLessCset *593*
pat.l_NorLessiChar *603*
pat.l_NorMoreChar *599*
pat.l_NorMoreCset *594*
pat.l_NorMoreiChar *603*
pat.l_NtoMChar *599*
pat.l_NtoMCset *594*
pat.l_NtoMiChar *604*
pat.l_OneOrMoreChar *597*
pat.l_OneOrMoreCset *592*
pat.l_OneOrMoreiChar *602*
pat.l_ZeroOrMoreChar *597*
pat.l_ZeroOrMoreCset *592*
pat.l_ZeroOrMoreiChar *601*
pat.l_ZeroOrOneChar *596*
pat.l_ZeroOrOneCset *591*
pat.l_ZeroOrOneiChar *601*
pat.match *587*
pat.matchiStr *605*

pat.matchiWord *606*
pat.matchStr *604*
pat.matchToiStr *605*
pat.matchToStr *605*
pat.matchWord *605*
pat.norLessChar *598*
pat.norLessCset *593*
pat.norLessiChar *602*
pat.norMoreChar *598*
pat.norMoreCset *594*
pat.norMoreiChar *603*
pat.ntoMChar *599*
pat.ntoMCset *594*
pat.ntoMiChar *603*
pat.oneChar *596*
pat.oneCset *590*
pat.oneiChar *600*
pat.oneOrMoreChar *597*
pat.oneOrMoreCset *592*
pat.oneOrMoreiChar *601*
pat.oneOrMorePat *588*, *590*
pat.oneOrMoreWS *608*
pat.onePat pattern matching function *589*
pat.peekChar *595*
pat.peekCset *590*
pat.peekiChar *600*
pat.peekWS *608*
pat.peekWSorEOS *608*
pat.position *587*
pat.setWhiteSpace *607*
pat.setWordDelims *606*
pat.skip *588*
pat._success_ macro *612*
pat.upToChar *596*
pat.upToCset *591*
pat.upToiChar *600*
pat.upToiStr *605*
pat.upToStr *605*
pat.WSorEOS *608*
pat.WSthenEOS *608*
pat.zeroOrMoreChar *596*
pat.zeroOrMoreCset *592*
pat.zeroOrMoreiChar *601*
pat.zeroOrMorePat *590*
pat.zeroOrMoreWS *607*
pat.zeroOrOneChar *596*
pat.zeroOrOneCset *591*
pat.zeroOrOneiChar *600*
pat.zeroOrOnePat *590*
Patterm matching *563*
peekc (stdin module) *738*
peekChar (patterns module) *595*
peekCset (patterns module) *590*
peekiChar (patterns module) *600*
peekWS (patterns module) *608*
peekWSorEOS (patterns module) *608*
Periodic timers (HOWL) *1121*
Pie wedges (HOWL) *1030*
PointerNotInHeap (exceptions module) *308*
Polygons (HOWL) *1030*
position (patterns module) *587*
Predicates (chars module) *66*
prefix (strings module) *850*
prefix3 (strings module) *851*
printExceptionError (exceptions module) *311*
PrivInstr (exceptions module) *309*
processMessage (HOWL) *1046*
Progress bars (HOWL) *1032*, *1096*
psubset (character sets) *255*
psuperset (character sets) *256*
Push buttons (HOWL) *1032*
put (blobs module) *64*
put (file class module) *332*
put (file I/O module) *424*
put (socket module) *657*
put (stderr module) *733*
put (stdout module) *815*
put (strings module) *959*
putb (blobs module) *63*
putb (file class module) *319*
putb (file I/O module) *365*
putb (socket module) *645*
putb (stderr module) *677*
putb (stdout module) *759*
putbool (blobs module) *63*
putbool (file class module) *317*
putbool (file I/O module) *357*
putbool (socket module) *643*
putbool (stderr module) *669*
putbool (stdout module) *751*
putByte (blobs module) *57*
putc (blobs module) *63*
putc (file class module) *318*
putc (file I/O module) *358*

putc (socket module) *643*
putc (stderr module) *670*
putc (stdout module) *752*
putcset (blobs module) *63*
putcset (file class module) *318*
putcset (file I/O module) *361*
putcset (socket module) *644*
putcset (stderr module) *673*
putcset (stdout module) *755*
putcSize (blobs module) *63*
putcsize (file class module) *318*
putcsize (file I/O module) *360*
putcsize (socket module) *644*
putcSize (stderr module) *672*
putcSize (stdout module) *754*
putd (blobs module) *63*
putd (file class module) *321*
putd (file I/O module) *373*
putd (socket module) *647*
putd (stderr module) *684*
putd (stdout module) *766*
putDword (blobs module) *58*
pute32 (blobs module) *64*
pute32 (file class module) *329*
pute32 (file I/O module) *416*
pute32 (socket module) *654*
pute32 (stderr module) *725*
pute32 (stdout module) *808*
pute64 (blobs module) *64*
pute64 (file class module) *329*
pute64 (file I/O module) *417*
pute64 (socket module) *655*
pute64 (stderr module) *726*
pute64 (stdout module) *808*
pute80 (blobs module) *64*
pute80 (file class module) *330*
pute80 (file I/O module) *418*
pute80 (socket module) *655*
pute80 (stderr module) *727*
pute80 (stdout module) *809*
puth128 (blobs module) *63*
puth128 (file class module) *323*
puth128 (file I/O module) *385*
puth128 (socket module) *649*
puth128 (stderr module) *695*
puth128 (stdout module) *778*
puth128Size (file class module) *323*
puth128Size (file I/O module) *386*
puth128Size (socket module) *649*
puth128Size (stderr module) *696*
puth128Size (stdout module) *779*
puth16 (blobs module) *63*
puth16 (file class module) *320*
puth16 (fileio module) *370*
puth16 (socket module) *646*
puth16 (stderr module) *682*
puth16 (stdout module) *764*
puth16Size (blobs module) *63*
puth16Size (file I/O module) *371*
puth16Size (fileclass module) *321*
puth16Size (socket module) *646*
puth16Size (stderr module) *683*
puth16Size (stdout module) *765*
puth32 (blobs module) *63*
puth32 (file class module) *321*
puth32 (file I/O module) *374*
puth32 (socket module) *647*
puth32 (stderr module) *685*
puth32 (stdout module) *767*
puth32Size (blobs module) *63*
puth32Size (file class module) *321*
puth32Size (file I/O module) *375*
puth32Size (socket module) *647*
puth32Size (stderr module) *686*
puth32Size (stdout module) *768*
puth64 (blobs module) *63*
puth64 (file class module) *322*
puth64 (file I/O module) *377*
puth64 (socket module) *648*
puth64 (stderr module) *688*
puth64 (stdout module) *770*
puth64Size (blobs module) *63*
puth64Size (file class module) *322*
puth64Size (file I/O module) *378*
puth64Size (socket module) *648*
puth64Size (stderr module) *689*
puth64Size (stdout module) *771*
puth8 (blobs module) *63*
puth8 (file class module) *320*
puth8 (fileio module) *366*
puth8 (socket module) *645*
puth8 (stdout module) *760*
puth80 (blobs module) *63*
puth80 (file class module) *322*
puth80 (file I/O module) *381*
puth80 (socket module) *648*

puth80 (stderr module) *691*
puth80 (stdout module) *774*
puth80Size (blobs module) *63*
puth80Size (file class module) *323*
puth80Size (file I/O module) *382*
puth80Size (socket module) *648*
puth80Size (stderr module) *692*
puth80Size (stdout module) *775*
puth8Size (blobs module) *63*
puth8Size (file class module) *320*
puth8Size (file I/O module) *367*
puth8Size (socket module) *646*
puth8Size (stderr module) *679*
puth8Size (stdout module) *761*
puti128 (blobs module) *63*
puti128 (file class module) *326*
puti128 (file I/O module) *399*
puti128 (socket module) *651*
puti128 (stderr module) *709*
puti128 (stdout module) *792*
puti128Size (blobs module) *63*
puti128size (file class module) *326*
puti128size (file I/O module) *400*
puti128Size (socket module) *652*
puti128Size (stderr module) *709*
puti128Size (stdout module) *792*
puti16 (blobs module) *63*
puti16 (file class module) *324*
puti16 (file I/O module) *391*
puti16 (socket module) *650*
puti16 (stderr module) *701*
puti16 (stdout module) *784*
puti16Size (blobs module) *63*
puti16size (file class module) *325*
puti16size (file I/O module) *393*
puti16size (socket module) *650*
puti16Size (stderr module) *702*
puti16Size (stdout module) *785*
puti32 (blobs module) *63*
puti32 (file class module) *325*
puti32 (file I/O module) *394*
puti32 (socket module) *650*
puti32 (stderr module) *704*
puti32 (stdout module) *787*
puti32Size (blobs module) *63*
puti32size (file class module) *325*
puti32size (file I/O module) *395*
puti32size (socket module) *651*
puti32Size (stderr module) *705*
puti32Size (stdout module) *788*
puti64 (blobs module) *63*
puti64 (file class module) *325*
puti64 (file I/O module) *397*
puti64 (socket module) *651*
puti64 (stderr module) *706*
puti64 (stdout module) *789*
puti64Size (blobs module) *63*
puti64size (file class module) *326*
puti64size (file I/O module) *398*
puti64size (socket module) *651*
puti64Size (stderr module) *707*
puti64Size (stdout module) *790*
puti8 (blobs module) *63*
puti8 (file class module) *324*
puti8 (file I/O module) *388*
puti8 (socket module) *650*
puti8 (stderr module) *698*
puti8 (stdout module) *781*
puti8Size (blobs module) *63*
puti8size (file class module) *324*
puti8size (file I/O module) *390*
puti8size (socket module) *650*
puti8Size (stderr module) *700*
puti8Size (stdout module) *783*
putl (blobs module) *63*
putl (file class module) *323*
putl (file I/O module) *384*
putl (socket module) *649*
putl (stderr module) *694*
putl (stdout module) *777*
putLword (blobs module) *59*
putq (blobs module) *63*
putq (file class module) *322*
putq (file I/O module) *377*
putq (socket module) *647*
putq (stderr module) *687*
putq (stdout module) *769*
putQword (blobs module) *58*
putr32 (blobs module) *64*
putr32 (file class module) *331*
putr32 (file I/O module) *420*
putr32 (socket module) *656*
putr32 (stdout module) *811*
putr64 (blobs module) *64*
putr64 (file class module) *331*
putr64 (file I/O module) *421*

putr64 (socket module) *656*
putr64 (stderr module) *730*
putr64 (stdout module) *812*
putr80 (blobs module) *64*
putr80 (file class module) *331*
putr80 (file I/O module) *423*
putr80 (socket module) *657*
putr80 (stderr module) *731*
putr80 (stdout module) *813*
puts (blobs module) *63*
puts (file class module) *319*
puts (file I/O module) *362*
puts (socket module) *644*
puts (stderr module) *674*
puts (stdout module) *756*
putsSize (blobs module) *63*
putssize (file class module) *319*
putssize (file I/O module) *363*
putsSize (socket module) *644*
putsSize (stderr module) *675*
putsSize (stdout module) *757*
puttb (blobs module) *63*
puttb (file class module) *322*
puttb (file I/O module) *380*
puttb (socket module) *648*
puttb (stderr module) *691*
puttb (stdout module) *773*
putTbyte (blobs module) *59*
putu128 (blobs module) *64*
putu128 (file class module) *328*
putu128 (file I/O module) *413*
putu128 (socket module) *654*
putu128 (stderr module) *722*
putu128 (stdout module) *805*
putu128Size (blobs module) *64*
putu128size (file class module) *328*
putu128Size (file I/O module) *414*
putu128Size (socket module) *654*
putu128Size (stderr module) *723*
putu128Size (stdout module) *805*
putu16 (blobs module) *63*
putu16 (file class module) *327*
putu16 (file I/O module) *405*
putu16 (socket module) *652*
putu16 (stderr module) *714*
putu16 (stdout module) *797*
putu16Size (blobs module) *63*
putu16size (file class module) *327*
putu16size (socket module) *653*
putu16Size (stderr module) *715*
putu16Size (stdout module) *798*
putu32 (blobs module) *63*
putu32 (file class module) *327*
putu32 (file I/O module) *408*
putu32 (socket module) *653*
putu32 (stderr module) *717*
putu32 (stdout module) *800*
putu32Size (blobs module) *63*
putu32size (file class module) *327*
putu32size (socket module) *653*
putu32Size (stderr module) *718*
putu32Size (stdout module) *801*
putu64 (blobs module) *63*
putu64 (file class module) *328*
putu64 (file I/O module) *411*
putu64 (socket module) *653*
putu64 (stderr module) *719*
putu64 (stdout module) *802*
putu64Size (blobs module) *64*
putu64size (file class module) *328*
putu64size (file I/O module) *412*
putu64size (socket module) *653*
putu64Size (stderr module) *720*
putu64Size (stdout module) *803*
putu8 (blobs module) *63*
putu8 (file class module) *326*
putu8 (file I/O module) *402*
putu8 (socket module) *652*
putu8 (stderr module) *711*
putu8 (stdout module) *794*
putu8Size (blobs module) *63*
putu8size (file class module) *327*
putu8size (file I/O module) *404*
putu8size (socket module) *652*
putu8Size (stderr module) *713*
putu8Size (stdout module) *796*
putw (blobs module) *63*
putw (file class module) *320*
putw (file I/O module) *369*
putw (socket module) *646*
putw (stderr module) *681*
putw (stdout module) *763*
putWord (blobs module) *58*
putz (socket module) *644*
putzSize (socket module) *645*

Q
qSize (conversions module) *94*
qToBuf (conversions module) *104*
qToStr (conversions module) *124*
R
r32ToBuf (conversions module) *239*
r32ToStr (conversions module) *241*
r64ToBuf (conversions module) *238*
r64ToStr (conversions module) *240*
r80ToBuf (conversions module) *237*
r80ToStr (conversions module) *240*
Radio button sets *1033*
Radio button styles *1033*
Radio buttons *1032*
Radio buttons (HOWL) *1032*
Radio set buttons (HOWL) *1034*
Random numbers *621*
rangeChar (character sets) *263*
rbrk (strings module) *864*
rbrk2 (strings module) *864*
rbrk3 (strings module) *864*
rchpos (blobs module) *48*
rchpos (strings module *860*
rchpos2 (blobs module) *48*
rchpos2 (strings module) *860*
rchpos3 (blobs module) *48*
rchpos3 (strings module) *861*
rcursor (blobs module) *40*
read (blobs module) *60*
read (file class module) *333*
read (file I/O module) *425*
read (socket module) *658*
read (stdin module) *736*
readAt (blobs module) *60*
readLn (blobs module) *64*
ReadLn (file class module) *333*
ReadLn (file I/O module) *426*
readLn (socket module) *659*
ReadLn (stdin module) *737*
Real to string output using decimal notation *955*
Real to string output using scientific notation *953*
realloc (blobs module) *38*
realloc (memory module) *553*
realloc1 (memory module) *553*
realloc2 (memory module) *553*
Rectangles (HOWL) *1035*
recv (socket module) *627*
recvfrom (socket module) *627*
reduce (arrays module) *19*
reduction (arrays module) *19*
releaseSemaphore (threads module) *976*
removeChar (character sets) *272*
removeStr (character sets) *275*
removeStr2 (character sets) *276*
rename (filesys module) *464*
reset (blobs module) *42*
resize (HOWL) *1048*
restart (timer class) *999*
restoreCursor (console module) *76*
reverse (lists module) *499*
reverse (strings module) *901*
reverse1 (strings module) *901*
reverse2 (strings module) *901*
reverse32, reverse16, reverse8 (bits module) *26*
rfindInCset (strings module) *868*
rfindInCset2 (strings module) *868*
rfindInCset3 (strings module) *869*
right (console module) *75*
rindex (blobs module) *46*
rindex (strings module) *855*
rindex2 (blobs module) *46*
rindex2 (strings module) *855*
rindex3 (blobs module) *46*
rindex3 (strings module) *855*
rindexStr (blobs module) *46*
rindexStr2 (blobs module) *46*
rindexStr3 (blobs module) *46*
rmdir (filesys module) *465*
rmv1stChar1 (strings module) *878*
rmv1stChar2 (strings module) *879*
rmv1stWord3 (strings module) *884*
rmvLastChar1 (strings module) *879*
rmvLastChar2 (strings module) *880*
rmvLastWord2 (strings module) *884*
rmvLastWord3 (strings module) *885*
rmvTrailingSpaces1 (strings module) *843*
rmvTrailingSpaces2 (strings module) *844*
roman (conversions module) *245*
Round rectangles (HOWL) *1035*
rskipInCset (strings module) *865*
rskipInCset2 (strings module) *865*
rskipInCset3 (strings module) *866*
rspan (strings module) *863*

rspan2 (strings module) *863*
rspan3 (strings module) *863*
Running (timer class) *998*
Run-time traits (stl) *820*

S

save (blobs module) *55*
saveCursor (console module) *76*
Scanning functions (blobs module) *45*
Scroll bars (HOWL) *1035*, *1097*
scrollDown (console module) *81*
scrollUp (console module) *80*
search (lists module) *500*
_sec (math module) *530*
sec (math module) *530*
sec32 (math module) *530*
sec64 (math module) *530*
sec80 (math module) *530*
secsBetweenTimes (time class module) *994*
secsBetweenTimes (time module) *983*
select (socket module) *628*
Semaphores *974*
send (socket module) *629*
sendto (socket module) *629*
Server applications (socket module) *635*
server_t.close *639*
server_t.create *639*
server_t.destroy *639*
setAdrs (socket module) *641*
setAttrs (console module) *81*
setDelimiters (conversions module) *89*
setEvent (threads module) *971*
set_exStyle (HOWL) *1048*
set_focus (HOWL) *1049*
setFormat (date/time module) *290*
setFormat (time module) *987*
set_height (HOWL) *1048*
setLength (blobs module) *39*
setMaxLen (blobs module) *40*
set_onHeap (HOWL) *1046*
set_parentHandle (HOWL) *1046*, *1048*
setPort (socket class module) *642*
setrCursor (blobs module) *41*
setSeparator (date/time module) *290*
set_style (HOWL) *1048*
setTimeout (socket class module) *641*
setTimeout (socket module) *632*
setTimeout2 (socket class module) *641*
setTLS (threads module) *970*
setUnderscores (conversions module) *85*
setunion (character sets) *268*
setwCursor (blobs module) *41*
setWhiteSpace (patterns module) *607*
set_width (HOWL) *1048*
setWordDelims (patterns module) *606*
set_x (HOWL) *1048*
set_y (HOWL) *1048*
Shell commands *561*
shll (math module) *519*
shlq (math routine) *510*
show (HOWL) *1046*, *1049*
shrl (math module) *520*
shrq (math module) *511*
Signed integer concatenation functions *932*
Signed integer input (socket module) *660*
Signed integer numeric output (socket module) *649*
_sin (math module) *521*
sin (math module) *521*
sin32 (math module) *521*
sin64 (math module) *521*
sin80 (math module) *521*
_sincos (math module) *525*
sincos (math module) *525*
sincos32 (math module) *525*
sincos64 (math module) *525*
sincos80 (math module) *525*
SingleStep (exceptions module) *309*
size (filesys module) *462*
size (memory module) *555*
skip (patterns module) *588*
skipInCset (strings module) *864*
skipInCset2 (strings module) *864*
skipInCset3 (strings module) *865*
sleep (os module) *562*
sock.a_adrsToStr *625*
sock.accept *626*
sock.adrsToStr *625*
sock.bind *626*
sock.close *627*
sock.connect *627*
sock.fd_clr *633*
sock.fd_isset *633*
sock.fd_set *633*
sock.fd_zero *633*

sock.gethostbyaddr *633*
sock.gethostbyname *632*
sock.gethostname *632*
sock.getpeername *633*
sock.getsockname *633*
sock.listen *627*
sock.recv *627*
sock.recvfrom *627*
sock.select *628*
sock.send *629*
sock.sendto *629*
sock.setTimeout *632*
sock.socket *629*
sock.socketCleanup *625*
sock.socketInit *625*
sock.strToAdrs *626*
socket (socket module) *629*
Socket class operations *639*
Socket classes *634*
socketCleanup (socket module) *625*
socketInit (socket class module) *625*
Sockets *625*
sort (lists module) *500*
span (strings module) *863*
span2 (strings module) *863*
span3 (strings module) *863*
spread2 (strings module) *888– 889*
spread3 (strings module) *889*
StackOverflow (exceptions module) *309*
Standard Error output routines *667*
Standard input routines *735*
Standard output routines *749*
Standard Template Library *817*
start (timer class) *999*
stat (memory module) *555*
stderr.hhf *667*
stderr.newln *669*
stderr.put *733*
stderr.putb *677*
stderr.putbool *669*
stderr.putc *670*
stderr.putcset *673*
stderr.putcSize *672*
stderr.putd *684*
stderr.pute32 *725*
stderr.pute64 *726*
stderr.pute80 *727*
stderr.puth128 *695*
stderr.puth128Size *696*
stderr.puth16 *682*
stderr.puth16Size *683*
stderr.puth32 *685*
stderr.puth32Size *686*
stderr.puth64 *688*
stderr.puth64Size *689*
stderr.puth80 *691*
stderr.puth80Size *692*
stderr.puth8Size *679*
stderr.puti128 *709*
stderr.puti128Size *709*
stderr.puti16 *701*
stderr.puti16Size *702*
stderr.puti32 *704*
stderr.puti32Size *705*
stderr.puti64 *706*
stderr.puti64Size *707*
stderr.puti8 *698*
stderr.puti8Size *700*
stderr.putl *694*
stderr.putq *687*
stderr.putr64 *730*
stderr.putr80 *731*
stderr.puts *674*
stderr.putsSize *675*
stderr.puttb *691*
stderr.putu128 *722*
stderr.putu128Size *723*
stderr.putu16 *714*
stderr.putu16Size *715*
stderr.putu32 *717*
stderr.putu32Size *718*
stderr.putu64 *719*
stderr.putu64Size *720*
stderr.putu8 *711*
stderr.putu8Size *713*
stderr.putw *681*
stderr.write *668*
stdin.a_gets *739*
stdin.eoln *737*
stdin.eoln2 *737*
stdin.FlushInput *735*
stdin.get *747*
stdin.getc *738*
stdin.getf *747*
stdin.geth128 *741*
stdin.geth16 *740*

stdin.geth32 *740*
stdin.geth64 *741*
stdin.geth8 *739*
stdin.geti128 *744*
stdin.geti16 *742*
stdin.geti32 *743*
stdin.geti64 *743*
stdin.geti8 *742*
stdin.gets *738*
stdin.getu128 *746*
stdin.getu16 *745*
stdin.getu32 *745*
stdin.getu64 *746*
stdin.getu8 *744*
stdin.handle *735*
stdin.hhf *735*
stdin.peekc *738*
stdin.read *736– 737*
stdin.ReadLn *737*
stdout.handle *667*, *749*
stdout.hhf *749*
stdout.newln *751*
stdout.put *815*
stdout.putb *759*
stdout.putbool *751*
stdout.putc *752*
stdout.putcset *755*
stdout.putcSize *754*
stdout.putd *766*
stdout.pute32 *808*
stdout.pute64 *808*
stdout.pute80 *809*
stdout.puth128 *778*
stdout.puth128Size *779*
stdout.puth16 *764*
stdout.puth16Size *765*
stdout.puth32 *767*
stdout.puth32Size *768*
stdout.puth64 *770*
stdout.puth64Size *771*
stdout.puth8 *760*
stdout.puth80 *774*
stdout.puth80Size *775*
stdout.puth8Size *761*
stdout.puti128 *792*
stdout.puti128Size *792*
stdout.puti16 *784*
stdout.puti16Size *785*
stdout.puti32 *787*
stdout.puti32Size *788*
stdout.puti64 *789*
stdout.puti64Size *790*
stdout.puti8 *781*
stdout.puti8Size *783*
stdout.putl *777*
stdout.putq *769*
stdout.putr32 *811*
stdout.putr64 *812*
stdout.putr80 *813*
stdout.puts *756*
stdout.putsSize *757*
stdout.puttb *773*
stdout.putu128 *805*
stdout.putu128Size *805*
stdout.putu16 *797*
stdout.putu16Size *798*
stdout.putu32 *800*
stdout.putu32Size *801*
stdout.putu64 *802*
stdout.putu64Size *803*
stdout.putu8 *794*
stdout.putu8Size *796*
stdout.putw *763*
stdout.write *750*
stl.elementsAreObjects_c *820– 821*, *823*
stl.fastAppend_c *820– 821*, *823*
stl.fastElementSwap_c *820– 821*, *824*
stl.fastInsert_c *820– 821*, *823*
stl.fastPrepend_c *820– 821*, *823*
stl.fastRemove_c *820– 821*, *823*
stl.fastSearch_c *820– 821*, *824*
stl.fastSwap_c *820– 821*, *824*
stl.IsArray_c *820– 821*
stl.isArray_c *822*
stl.isContainer_c *820– 821*
stl.isDeque_c *820– 822*
stl.isList_c *820– 822*
stl.isRandomAccess_c *820– 822*
stl.isTable_c *820– 822*
stl.isVector_c *820– 821*
stl.supportsAppend_c *821– 822*
stl.supportsCompare_c *820– 822*
stl.supportsCursor_c *820– 821*, *823*
stl.supportsElementSwap_c *820– 821*, *823*
stl.supportsForEach_c *820– 821*, *823*

stl.supportsInsert_c *820– 822*
stl.supportsObjSwap_c *820– 821*, *823*
stl.supportsOutput_c *820– 822*
stl.supportsPrepend_c *820– 822*
stl.supportsRemove_c *820– 822*
stl.supportsrForEach_c *820– 821*
stl.supportsSearch_c *820– 821*, *823*
stl.supportsSwap_c *820– 821*
stl.vector *817*
stop (timer class) *999*
str.a_cat *904*
str.a_catbuf *909*
str.a_catbuf2 *909*
str.a_catbuf3 *909*
str.a_catsub *907*
str.a_catz *906*
str.a_columnize2 *886*
str.a_columnize3 *886*
str.a_cpy *829*
str.a_cpyz *829*
str.a_delete *837*
str.a_delLeadingSpaces *839*
str.a_delTrailingSpaces *840*
str.a_deTab2 *890*
str.a_deTab3 *891*
str.a_enTab2 *894*
str.a_enTab3 *894*
str.a_first *831*
str.a_getField2 *875*
str.a_getField3 *876*
str.a_insert *836*
str.a_last *833*
str.alloc (memory/string module) *559*
str.a_lower *899*
str.a_reverse *900*
str.a_rmv1stWord1 *880*
str.a_rmv1stWord2 *881*
str.a_rmvLastWord1 *882*
str.a_rmvLastWord2 *882*
str.a_rmvTrailingSpaces *843*
str.a_spread2 *888*
str.a_substr *830*
str.a_translate *902*
str.a_trim *842*
str.a_truncate *834*
str.a_upper *898*
str.brk *863*
str.brk2 *863*
str.brk3 *864*
str.cat *905*
str.cat2 *905*
str.cat3 *905*
str.catb *917*
str.catbool *911*
str.catbuf *910*
str.catbuf2 *910*
str.catbuf3a *910*
str.catbuf3b *910*
str.catbuf4 *910*
str.catc *912*
str.catcset *914*
str.catcSize *913*
str.catd *923*
str.cate32 *953*
str.cate64 *954*
str.cate80 *954*
str.cath128 *930*
str.cath128Size *931*
str.cath16 *921*
str.cath16Size *922*
str.cath32 *924*
str.cath32Size *924*
str.cath64 *926*
str.cath64Size *926*
str.cath80 *928*
str.cath80Size *928*
str.cati128 *940*
str.cati128Size *941*
str.cati16 *935*
str.cati16Size *936*
str.cati32 *937*
str.cati32Size *937*
str.cati64 *939*
str.cati64Size *939*
str.cati8 *932*
str.cati8Size *934*
str.catl *930*
str.catq *925*
str.catr32 *955*
str.catr64 *956*
str.catr80 *957*
str.cats *915*
str.catsSize *916*
str.catsub *907*
str.catsub4 *908*
str.catsub5 *908*

str.cattb *928*
str.catu128 *951*
str.catu128Size *951*
str.catu16 *945*
str.catu16Size *946*
str.catu32 *947*
str.catu32Size *947*
str.catu64 *949*
str.catu64Size *949*
str.catu8 *943*
str.catu8Size *944*
str.catw *920*
str.catz *906*
str.charInStr *874*
str.chpos *858*
str.chpos2 *858*
str.chpos3 *858*
str.columnize3 *887*
str.columnize4 *887*
str.cpy *829*
str.cpyz *830*
str.delete *838*
str.delete3 *838*
str.delete4 *838*
str.delLeadingSpaces *839– 840*
str.delLeadingSpaces1 *840*
str.delTrailingSpaces *841*
str.delTrailingSpaces1 *841*
str.delTrailingSpaces2 *841*
str.deTab2 *891*
str.deTab3a *892*
str.deTab3b *892*
str.deTab4 *893*
str.enTab2 *895*
str.enTab3a *896*
str.enTab3b *896*
str.enTab4 *897*
str.eq *844*
str.findInCset *867*
str.findInCset2 *867*
str.findInCset3 *867*
str.first *832*
str.first2 *832*
str.first3 *832*
str.free (memory/string module) *559*
str.ge *847*
str.getField3 *877*
str.getField4 *877*
str.getref *559*
str.gt *846*
str.ichpos *859*
str.ichpos2 *859*
str.ichpos3 *859*
str.ieq *847*
str.ige *849*
str.igt *849*
str.iindex *853*
str.iindex3 *854*
str.ile *849*
str.ilt *848*
str.index *852*
str.index2 *852*
str.index3 *852*
str.ine *848*
str.init *827*
str.insert *836*
str.insert3 *836*
str.insert4 *837*
str.irchpos *861*
str.irchpos2 *862*
str.irchpos3 *862*
str.irindex *856*
str.irindex2 *856*
str.irindex3 *857*
str.isInHeap (memory/string module) *559*
str.last *833*
str.last2 *833*
str.last3 *834*
str.le *846*
str.length *828*
str.lower *900*
str.lower1 *900*
str.lower2 *900*
str.lt *845*
str.ne *845*
str.newref (memory/string module) *559*
str.prefix *850*
str.prefix3 *851*
str.put *959*
str.rbrk *864*
str.rbrk2 *864*
str.rbrk3 *864*
str.rchpos *860*
str.rchpos2 *860*
str.rchpos3 *861*
str.realloc (memory/string module) *559*

str.reverse *901*
str.reverse1 *901*
str.reverse2 *901*
str.rfindInCset *868*
str.rfindInCset2 *868*
str.rfindInCset3 *869*
str.rindex *855*
str.rindex2 *855*
str.rindex3 *855*
str.rmv1stChar1 *878*
str.rmv1stChar2 *879*
str.rmv1stWord2rmv1stWord2 (strings module) *883*
str.rmv1stWord3 *884*
str.rmvLastChar1 *879*
str.rmvLastChar2 *880*
str.rmvLastWord2 *884*
str.rmvLastWord3 *885*
str.rmvTrailingSpaces1 *843*
str.rmvTrailingSpaces2 *844*
str.rskipInCset *865*
str.rskipInCset2 *865*
str.rskipInCset3 *866*
str.rspan *863*
str.rspan2 *863*
str.rspan3 *863*
str.skipInCset *864*
str.skipInCset2 *864*
str.skipInCset3 *865*
str.span *863*
str.span2 *863*
str.span3 *863*
str.spread2 *889*
str.spread3 *889*
str.strvar *827*
str.substr *831*
str.talloc (memory/string module) *559*
str.tokenCnt1 *869*
str.tokenCnt2 *870*
str.tokenInStr *873*
str.tokenInStr2 *873*
str.tokenize *870*
str.tokenize3 *870*
str.tokenize4 *872*
str.translate *903*
str.translate3 *903*
str.translate4 *903*
str.trim *842*
str.trim1 *842*
str.trim2 *842*
str.truncate *835*
str.truncate2 *835*
str.truncate3 *835*
str.upper *898*
str.upper1 *898*
str.upper2 *899*
str.wordInStr *874*
String allocation macros and functions *827*
String assignment *828*
String comparison functions *844*
String concatenation functions *904*
String concatentation functions *912*
String conversion functions *897*
String deletion *836*
String extraction functions (pattern matching module) *606*
String formatting routines *885*
String insertion and deletion *836*
String length calculations *828*
String matching functions *604*
String memory allocation *558*
String parsing functions *869*
String Searching Functions *850*
String value concatenation functions *911*
StringIndexError (exceptions module) *305*
StringOverflow (exceptions module) *305*
Strings *825*
strings.hhf *825*
strToAdrs (socket module) *626*
strToFlt (conversions module) *245*
strToh128 (conversions module) *155*
strToh16 (conversions module) *152*
strToh32 (conversions module) *153*
strToh64 (conversions module) *154*
strToh8 (conversions module) *151*
strToi128 (conversions module) *191*
strToi16 (conversions module) *188*
strToi32 (conversions module) *189*
strToi64 (conversions module) *190*
strToi8 (conversions module) *187*
strTou128 (conversions module) *228*
strTou16 (conversions module) *224*
strTou32 (conversions module) *225*
strTou64 (conversions module) *226*
strTou8 (conversions module) *223*
subBlob (blobs module) *44*

subDays (date module) *288*
subDays (date/time module) *299*
subHours (time class module) *994*
subHours (time module) *984*
subl (math module) *512*
subMins (time class module) *994*
subMins (time module) *984*
subMonths (date/time module) *288*, *299*
subq (math routine) *504*
subSecs (time class module) *994*
subSecs (time module) *984*
subset (character sets) *253*
substr (strings module) *831*
Substring functions *830*
subYears (date/time module) *288*, *299*
superset (character sets) *254*
supportsAppend_c (stl) *821– 822*
supportsCompare_c (stl) *820– 822*
supportsCursor_c (stl) *820– 821*, *823*
supportsElementSwap_c (stl) *820– 821*, *823*
supportsForEach_c (stl) *820– 821*, *823*
supportsInsert_c (stl) *820– 822*
supportsObjSwap_c (stl) *820– 821*, *823*
supportsOutput_c (stl) *820– 822*
supportsPrepend_c (stl) *820– 822*
supportsRemove_c (stl) *820– 822*
supportsrForEach_c (stl) *820– 821*
supportsrForeach_c (stl) *823*
supportsSearch_c (stl) *820– 821*, *823*
supportsSwap_c (stl) *821*
switch macro *961*
system (os module) *561*
System icons (HOWL) *1027*
System time *986*

T

Tab pages (HOWL) *1116*
Tabbed forms *1065*
Table (stl) *824*
Table class *963*
tableNode_t *963*
Tables *963*
tables.hhf *963*
table_t.create *963– 964*
table_t.destroy *963– 964*
table_t.getNode *963*, *966*
table_t.item *963*
table_t.lookup *963*, *965*
talloc (memory module) *554*
_tan (math module) *524*
tan (math module) *524*
tan32 (math module) *524*
tan64 (math module) *524*
tan80 (math module) *524*
tbSize (conversions module) *94*
tbToBuf (conversions module) *105*
tbToStr (conversions module) *126*
Templates (stl) *818*
TenToX (math module) *539*
_tenToX (math module) *539*
tenToX32 (math module) *539*
tenToX64 (math module) *539*
tenToX80 (math module) *539*
Text (HOWL) *1112*
Text editor widgets (HOWL) *1036*
Thread local storage *969*
thread.create *967*
thread.createCriticalSection *973*
thread.createEvent *971*
thread.createSemaphore *974*
thread.createTLS *969*
thread.deleteCriticalSection *973*
thread.deleteEvent *971*
thread.deleteSemaphore *975*
thread.enterCriticalSection *973*
thread.getCurrentThreadHandle *969*
thread.getTLS *970*
thread.leaveCriticalSection *974*
thread.releaseSemaphore *976*
thread.setEvent *971*
thread.setTLS *970*
thread.waitForEvent *972*
thread.waitSemaphore *975*
Threads *967*
threads.hhf *967*
Three-state check boxes *1022*
Time arithmetic *983*
Time conversions *980*
Time delay functions *561*
Time functions *977*
Time string conversions *987*
time.addHours *985*
time.addMins *985*
time.addSecs *985*
time.a_toString *987*
time.curTime *986*, *994*

time.durationToSecs *980*
time.fromSecs *981*
time.fromUnixTime *982*
time.fromWinFileTime *983*
time._isValid *979*
time.isValid *979*
time.pack *980*
time.secsBetweenTimes *983*
time.setFormat *987*
time.subHours *984*
time.subMins *984*
time.subSecs *984*
time.timerec *977*
time._toSecs *981*
time.toSecs *981*
time.toString *987*
time.toUnixTime *981*
time.toWinFileTime *982*
time.unpack *980*
time.utcTime *986*, *994*
time.validate *978*
TimeOverflow (exceptions module) *309*
Timer functions *997*
Timer procedures and methods *998*
Timer widgets (HOWL) *1040*
timer.hhf *997*
timerec (date/time module) *977*
Timers (HOWL) *1121*
timer_t *997*
timer_t.Accumulated *998*
timer_t.checkPoint *999*
timer_t.create *998*
timer_t.DateStarted *998*
timer_t.DateStopped *998*
timer_t.msStarted *998*
timer_t.msStopped *998*
timer_t.restart *999*
timer_t.Running *998*
timer_t.start *999*
timer_t.stop *999*
timer_t.TimeStarted *998*
timer_t.TimeStopped *998*
TimeStarted (timer class) *998*
TimeStopped (timer class) *998*
today (date/time module) *289*, *299*
toJulian (date/time module) *283*, *298*
tokenCnt1 (strings module) *869*
tokenCnt2 (strings module) *870*
tokenInStr (strings module) *873*
tokenInStr2 (strings module) *873*
tokenize (strings module) *870*
tokenize3 (strings module) *870*
tokenize4 (strings module) *872*
toLower (chars module) *65*
toNativePath1 (filesys module) *460*
toNativePath2 (filesys module) *460*
TooManyCmdLnParms (exceptions module) *306*
toSecs (time class module) *993*
_toSecs (time module) *981*
toSecs (time module) *981*
toString (date/time module) *291*, *299*
toString (time class module) *995*
toString (time module) *987*
toUnixPath (filesys module) *457*
toUnixPath2 (filesys module) *458*
toUnixTime (time module) *981*
toUpper (chars module) *65*
toWin32Path1 (filesys module) *459*
toWin32Path2 (filesys module) *459*
toWinFileTime (time module) *982*
Track bar widgets (HOWL) *1037*
Track bars (HOWL) *1097*
Trait constants *821*
traits (stl classes) *819*
Transcendental arithmetic operations *520*
translate (strings module) *903*
translate3 (strings module) *903*
translate4 (strings module) *903*
transpose (arrays module) *20*
trim (strings module *842*
trim1 (strings module) *842*
trim2 (strings module) *842*
truncate (strings module) *835*
truncate2 (strings module) *835*
truncate3 (strings module) *835*
_twoToX (math module) *538*
twoToX (math module) *538*
twoToX32 (math module) *538*
twoToX64 (math module) *538*
twoToX80 (math module) *538*
typeName field in stl classes *824*

U

u128Size (conversions module) *196*
u128ToBuf (conversions module) *202*
u128ToStr (conversions module) *216*

_u16Size (conversions module) *193*
u16Size (conversions module) *194*
u16ToBuf (conversions module) *199*
u16ToStr (conversions module) *208*
_u32Size (conversions module) *193*
u32Size (conversions module) *195*
u32ToBuf (conversions module) *200*
u32ToStr (conversions module) *211*
u64Size (conversions module) *195*
u64ToBuf (conversions module) *201*
u64ToStr (conversions module) *214*
_u8Size (conversions module) *193*
u8Size (conversions module) *193*
u8ToBuf (conversions module) *197*
u8ToStr (conversions module) *204*
Underscore control *84*
unionChar (character sets) *271*
unionStr (character sets) *273*
unionStr2 (character sets) *274*
UnknownException (exception) *305*, *308*
unpack (date/time module) *283*
unpack (time module) *980*
Unsigned integer concatenation functions *942*
Unsigned integer conversions *192*
Unsigned integer numeric output (socket module) *652*
up (console module) *74*
Up/Down arrow widgets (HOWL) *1038–1039*
Up/Down arrows (HOWL) *1106*
upper (strings module) *898*
upper1 (strings module) *898*
upper2 (strings module) *899*
upToChar (patterns module) *596*
upToCset (patterns module) *591*
upToiChar (patterns module) *600*
upToiStr (patterns module) *605*
upToStr (patterns module) *605*
utc (date/time module) *289*
utcTime (time class module) *994*
utcTime (time module) *986*

V

v (args module) *10*
validate (date/time module) *282*, *298*
validate (time class module) *993*
validate (time module) *978*
ValueOutOfRange (exceptions module) *305*
Variable length hexadecimal numeric to buffer conversions *108*
Vector (stl) *824*
Views (HOWL) *1116*
visible (HOWL) *1045*

W

wabsEditBox_t *1055*
waitForEvent (threads module) *972*
waitSemaphore (threads module) *975*
wBase_t *1041*, *1043*
wBitmap *1031*
wBitmap_t *1068*
wButton_t *1050*
wCheckable_t *1052*
wCheckBox *1023*
wCheckBox3 *1023*
wCheckBox3LT *1023*
wCheckBox3LT_t *1079*
wCheckBox3_t *1078*
wCheckBoxLT *1023*
wCheckBoxLT_t *1080*
wCheckBox_t *1077*
wClickable_t *1049*
wComboBox *1024*
wComboBox_t *1094*
wContainer_t *1059*
wcursor (blobs module) *41*
wDragListBox *1024*
wDragListBox_t *1093*
wEditBox *1025*
wEditBox_t *1086*
wEllipse *1026*
wEllipse_t *1070*
wFilledFrame_t *1054*
wFont_t *1112*
wForm *1008*, *1017– 1018*
wForm_t *1061*
wGroupBox *1028*
wGroupBox_t *1067*
wIcon *1027*
wIcon_t *1111*
widgetProc *1015*
WidthTooBig (exceptions module) *306*
Window objects (HOWL) *1119*
window_t *1119*
wLabel *1028*
wLabel_t *1114*

wListBox *1029*
wListBox_t *1090*
wMainMenu *1019*
wMenuItem *1020*
wMenuItem_t *1063*
wMenuSeparator *1020*
wMenu_t *1063*
wordInStr (strings module) *874*
wPasswdBox *1029*
wPasswdBox_t *1087*
wPie *1030*
wPie_t *1071*
wPolygon *1030*
wPolygon_t *1073*
wProgressBar *1032*
wProgressBar_t *1096*
wPushButton *1015*, *1017*, *1032*
wPushButton_t *1080*
wRadioButton *1032*
wRadioButtonLT *1033*
wRadioButtonLT_t *1082*
wRadioButton_t *1081*
wRadioSet *1033*
wRadioSetButton *1034*
wRadioSetButtonLT *1034*
wRadioSetButtonLT_t *1085*
wRadioSetButton_t *1084*
wRadioSet_t *1083*
wRectangle *1035*
wRectangle_t *1075*
write (blobs module) *55*
write (file class module) *317*
write (file I/O module) *354*
write (socket module) *642*
write (stderr module) *668*
write (stdout module) *750*
writeAt (blobs module) *57*
Writing your own pattern matching routines *609*
wRoundRect *1035*
wRoundRect_t *1076*
wScrollBar *1035*
wScrollBar_t *1097*
wSize (conversions module) *93*
WSorEOS (patterns module) *608*
WSthenEOS (patterns module) *608*
wSubMenu *1020*
wSurface_t *1053*
wTab *1021*
wTabPage_t *1116*
wTabs_t *1065*
wTextEdit *1036*
wTextEdit_t *1088*
wTimer *1040*
wTimer_t *1121*
wToBuf (conversions module) *102*
wToStr (conversions module) *119*
wTrackBar *1037*
wTrackBar_t *1103*
wType (HOWL) *1041*, *1044*
wUpDown *1038*– *1039*
wUpDown_t *1106*, *1108*
wView_t *1119*
wVisual_t *1046*

X

xchgNodes (lists module) *500*
xorl (math module) *518*
xorq (math routine) *509*

Y

_YtoX (math module) *541*
ytoX (math module) *541*
YtoX32 (math module) *541*
YtoX64 (math module) *541*
YtoX80 (math module) *541*

Z

zalloc (memory module) *552*
zcmp (zstrings module) *1003*
zeroOrMoreChar (patterns module) *596*
zeroOrMoreCset (patterns module) *592*
zeroOrMoreiChar (patterns module) *601*
zeroOrMorePat (patterns module) *590*
zeroOrMoreWS (patterns module) *607*
zeroOrOneChar (patterns module) *596*
zeroOrOneCset (patterns module) *591*
zeroOrOneiChar (patterns module) *600*
zeroOrOnePat (patterns module) *590*
Zero-terminated strings *1001*
zstr.cat *1004*
zstr.cpy *1004*
zstr.len *1002*
zstr.zcmp *1003*
zstring.hhf *1001*