

IBExpert UDF Functions

String Functions

Create Functions

- F_CRLF
- F-DQM
- F-DSQM
- F-LF
- F-NBSP and U-NBSP
- F-SPACE
- F-SQM
- F-TAB
- U_NNBSP

Edit Functions

- F_COLLATEBR
- F_CONVERTSYMBOLS, U_CONVERTSYMBOLS
- F_KEYUP
- F_LEFT(F_LEFT4, F_LEFT8), F_BIGLEFT, U_LEFT(U_LEFT4, U_LEFT8)
- F_LINEWRAP, U_LINEWRAP
- F_LRTRIM(F_LRTRIM4, F_LRTRIM8)
- F_MID(F_MID4, F_MID8), F_BIGMID, U_MID(U_MID4, U_MID8, F_COPY, F_STRCOPY)
- F_PADCENTER, U_PADCENTER
- F_PADLEFT, U_PADLEFT, F_RPADLEFT
- F_PADRIGHT, U_RPADRIGHT, F_RPADRIGHT
- F_PRED, U_PRED
- F_REPEATTRIM, U_REPEATTRIM
- F_REPLACE(F_REPLACE4, F_REPLACE8), F_BIGREPLACE
- F_REPLACESTRING(F_REPLACESTRING4, F_REPLACESTRING8), F_BIGREPLACESTRING, U_REPLACESTRING(U_REPLACESTRING4, U_REPLACESTRING8)
- F_REVERSE, U_REVERSE
- F_RIGHT(F_RIGHT4, F_RIGHT8), F_BIGRIGHT, U_RIGHT(U_RIGHT4, U_RIGHT8)
- F_RTRIM(F_RTIM4, F_RTRIM8), F_BIGRTRIM
- F_STRIPSTRING, F_BIGSTIPSTRING, U_STRIPSTRING
- F_STRIPSTRINGHOLD, F_HOLDSTRING, F_BIGSTRIPSTRINGHOLD, U_STRIPSTRINGHOLD
- F_STROFCHAR
- F_STRREPEAT
- F_STRRM, U_STRRM
- F_STRSTUFF, U_STRSTUFF
- F_SUBSTR(F_SUBSTR4, F_SUBSTR8), F_BIGSUBSTR, F_STRSUB, F_STRPOS
- F_SUBSTRN(F_SUBSTR), U_SUBSTR, F_STRSUBN
- F_SUCC, U_SUCC

Convert Functions

- [F_CHARACTER, F_CHR, U_CHR](#)
- [F_DIGITS](#)
- [F_FLOATOSTR](#)
- [F_GENERATESNDXINDEX, F_SOUNDEX](#)
- [F_GSOUNDEX](#)
- [F_INTTOSTR](#)
- [F_LOWER, F_ANSILOWERCASE, U_LOWER](#)
- [F_ORD, U_ORD](#)
- [F_PROPERCASE, U_PROPERCASE](#)
- [F_RC](#)
- [F_RLATIN](#)
- [F_RLOWER](#)
- [F_ROT13](#)
- [F_RUPPER](#)
- [F_STR2EXCEL](#)
- [F_TELEFONNR](#)
- [F_UPPER, F_ANSILOWERCASE, U_LOWER](#)
- [U_CYRILLIC_LATIN](#)

Compare Functions

- [F_EQUALSTRING](#)
- [F_STRCMP, U_STRCMP](#)

Find/Determine Functions

- [F_DOMAINFROMEMAIL](#)
- [F_FINDWORD, U_FINDWORD](#)
- [F_FINDWORDINDEX](#)
- [F_FINDWORDINDEXN\(F_FINDWORDINDEX\)](#)
- [F_RWORDCOUNT](#)
- [F_STRINGCOUNT, F_RSTRINGCOUNT](#)
- [F_STRINGLENGTH\(F_STRINGLENGTH4, F_STRINGLENGTH8, F_STRINGLENGTH32\), F_BIGSTRINGLENGTH, U_STRINGLENGTH\(U_STRINGLENGTH4, U_STRINGLENGTH8, U_STRINGLENGTH32\)](#)
- [F_STRINGLISTITEM](#)
- [F_WORDCOUNT](#)
- [F_WORDNUM](#)

Numeric Functions

Create Functions

- [F_DOUBLERANDOM](#)
- [F_GETRANDOM](#)
- [F_INTRANDOM](#)
- [F_RAND](#)

Format Functions

- F_DOLLARVAL, F_CONVERTTODOLLAR
- F_EUROVAL
- F_FIXEDPOINT
- F_FIXEDPOINTLANG
- F_INPUTVAL
- F_NUMINWORDS
- F_RAPPENRUNDUNG
- F_ROUND
- F_ROUNDFLOAT
- F_ROUNDTOEVEN
- F_SOFTROUND
- F_TRUNCATE
- F_ZAHLRUNDEN, F_ROUNDCOMMON

Calculate Functions

- F_CEILING
- F_DIV
- F_DOUBLEABS, F_ABS
- F_DZERO
- F_EVEN
- F_EXP
- F_FACT, F_FACTORIAL
- F_FLOOR
- F_FRAC
- F_INTEGERABS
- F_ISDIVISIBLEBY
- F_LN
- F_LOG
- F_LOG10
- F_MODULO
- F_POWER
- F_PROZENTE
- F_REMAINDER
- F_SIGN
- F_SQRT
- F_Z

Compare Functions

- F_EQUALFLOAT
- F_EQUALINTIGER
- F_MAXNUM, F_MAX
- F_MINNUM, F_MIN

Binary Functions

- F_BIN_AND
- F_BIN_GET
- F_BIN_NOT
- F_BIN_OR
- F_BIN_SET

- [F_BIN_SHL](#)
- [F_BIN_SHR](#)
- [F_BIN_XOR](#)

Trigonometry Functions

- [F_ACOS](#)
- [F_ACOT](#)
- [F_ARCCOSD](#)
- [F_ARCCOTD](#)
- [F_ARCOSH](#)
- [F_ARCOTH](#)
- [F_ARCSIND](#)
- [F_ARCTAND](#)
- [F_ARSINH](#)
- [F_ARTANH](#)
- [F_ASIN](#)
- [F_ATAN](#)
- [F_ATAN2](#)
- [F_COS](#)
- [F_COSD](#)
- [F_COSH](#)
- [F_COT](#)
- [F_COTD](#)
- [F_COTH](#)
- [F_SIN](#)
- [F_SIND](#)
- [F_SINH](#)
- [F_TAN](#)
- [F_TAND](#)
- [F_TANH](#)

Date/Time Functions

Calculate Functions

- [F_ADDDAY](#)
- [F_ADDHOUR](#)
- [F_ADDMINUTE](#)
- [F_ADDMONTH](#)
- [F_ADDPERIOD](#)
- [F_ADDSECOND](#)
- [F_ADDWEEK](#)
- [F_ADDYEAR](#)
- [F_INCDATE](#)
- [F_INCDATETIME](#)
- [F_SUBPERIOD](#)

Determine Functions

- F_AGEINDAYS
- F_AGEINDAYSN
- F_AGEINDAYSTHRESHOLD
- F_AGEINDAYSTHRESHOLDN
- F_AGEINHOURS
- F_AGEINHOURSN
- F_AGEINHOURSTHRESHOLD
- F_AGEINDAYSTHRESHOLDN
- F_AGEINHOURS
- F_AGEINHOURSN
- F_AGEINHOURSTHRESHOLD
- F_AGEINHOURSTHRESHOLDN
- F_AGEINMINUTES
- F_AGEINMINUTESN
- F_AGEINMINUTESTHRESHOLD
- F_AGEINMINUTESTHRESHOLDN
- F_AGEINMONTHS
- F_AGEINMONTHSN
- F_AGEINMONTHSTHRESHOLD
- F_AGEINMONTHSTHRESHOLDN
- F_AGEINSECONDS
- F_AGEINSECONDSN
- F_AGEINSECONDSTHRESHOLD
- F_AGEINWEEKS
- F_AGEINWEEKSISO
- F_AGEINWEEKSN
- F_AGEINWEEKSNISO
- F_AGEINWEEKSTHRESHOLD
- F_AGEINWEEKSTHRESHOLDISO
- F_AGEINWEEKSTHRESHOLDN
- F_AGEINWEEKSTHRESHOLDNISO
- F_AGEINWORKINGDAYS
- F_AGEINWORKINGDAYSTHR
- F_AGEINYEARS
- F_AGEINYEARSN
- F_AGEINYEARSTHRESHOLD
- F_AGEINYEARSTHRESHOLDN
- F_COUNTWEEKDAYS
- F_DAYOFMONTH
- F_DAYOFYEAR, F_EXTRACTYEAR, F_EXTRACTYEARDAY, F_DAYOFYEAR
- F_DAYSBEWEEN
- F_DAYSOFMONTH
- F_DTIME
- F_FIRSTDAYKW
- F_FIRSTDAYLASTMONTH
- F_FIRSTDAYLASTQUARTER
- F_FIRSTDAYLASTWEEK
- F_FIRSTDAYLASTWEEKISO
- F_FIRSTDAYMONTH
- F_FIRSTDAYNEXTMONTH
- F_FIRSTDAYNEXTQUARTER

- F_FIRSTDAYNEXTWEEK
- F_FIRSTDAYNEXTWEEKISO
- F_FIRSTDAYQUARTER
- F_FIRSTDAYWEEK
- F_FIRSTDAYWEEKISO
- F_FIRSTDAYWOY
- F_HOUR
- F_HOURS BETWEEN
- F_INDMINUTES BETWEEN
- F_INDMINUTES BETWEEN THR
- F_INDMINUTES BETWEEN THRI B
- F_ISLEAPYEAR
- F_KALENDERWOCHE
- F_LASTDAY
- F_LASTDAYKW
- F_LASTDAYLASTMONTH
- F_LASTDAYLASTQUARTER
- F_LASTDAYLASTWEEK
- F_LASTDAYLASTWEEKISO
- F_LASTDAYMONTH
- F_LASTDAYNEXTMONTH
- F_LASTDAYNEXTQUARTER
- F_LASTDAYNEXTWEEK
- F_LASTDAYNEXTWEEKISO
- F_LASTDAYQUARTER
- F_LASTDAYWEEK
- F_LASTDAYWEEKISO
- F_LASTDAYWOY
- F_MILLISECOND
- F_MINUTE
- F_MINUTES BETWEEN
- F_MONTH
- F_MONTHS BETWEEN
- F_QUARTER
- F_RISLEAPYEAR
- F_SECOND
- F_SECONDS BETWEEN
- F_TZVALUETOUTC
- F_WEEK, F_WEEKOFYEAR
- F_WEEKS BETWEEN
- F_WEEKS BETWEEN ISO
- F_WORKINGDAYS BETWEEN
- F_WOY
- F_WOYISO
- F_YEAR, F_YEAROFYEAR
- F_YEARS BETWEEN
- F_ZEITDIFFERENZ

Format Functions

- F_CDOWLON G

- F_CDOWLANG
- F_CDOWSHORT
- F_CDOWSHORTLANG
- F_CMONTHLONG
- F_CMONTHLANG
- F_CMONTHSHORT
- F_CMONTHSHORTLANG
- F_DATETOSTR
- F_DATETOSTRLANG
- F_ENCODEDATE, F_ENCODEDATENULL
- F_ENCODETIME, F_ENCODETIMENULL
- F_ENCODETIMESTAMP
- F_GFORMATD
- F_RECODEDATE
- F_RECODEDATETIME
- F_STRIPDATE
- F_STRIPTIME
- U_DATE2STRLANG
- U_DOWLONG
- U_DOWLANG
- U_DOWSHORT
- U_DOWSHORTLANG
- U_MONTHLONG
- U_MONTHLANG
- U_MONTHSHORT
- U_MONTHSHORTLANG

Compare Functions

- F_EQUALDATE
- F_EQUALDATETIME
- F_MAXDATE
- F_MINDATE

Convert Functions

- F_DATETODOUBLE
- F_TIMETODOUBLE
- F_DOUBLETO TIME
- F_PERIOD2SECONDS
- F_SECONDS2PERIOD
- F_STRTOTIME
- F_TIMETODOUBLE

Movable Feasts Functions

- F_ASCHERMITTWOCH
- F_FRONLEICHNAM
- F_GRUENDONNERSTAG
- F_HIMMELFAHRT
- F_KARFREITAG
- F_KARNEVALSDIENSTAG

- [F_OSTERDATUM](#)
- [F_OSTERMONTAG](#)
- [F_OSTERSAMSTAG](#)
- [F_PALMSONNTAG](#)
- [F_PFINGSTMONTAG](#)
- [F_PFINGSTSONNTAG](#)
- [F_ROSENMONTAG](#)
- [F_WEIBERFASTNACHT](#)

Blob Functions

Transform

- [F_BLOB2EXCEL](#)
- [F_BLOBASPCHAR](#)
- [F_STRBLOB](#)

Edit

- [F_BLOBCAT](#)
- [F_BLOBCATSTR](#)
- [F_BLOBLINE](#)
- [F_BLOBMID](#), [F_RBLOBMID](#)
- [F_BLOBREPLACESTRING](#), [U_BLOBREPLACESTRING](#)
- [F_BLOBRIGHT](#)
- [F_BLOBSUBSTR](#), [U_BLOBSUBSTR](#)

Calculate

- [F_BLOBLINECOUNT](#)
- [F_BLOBMAXSEGMENTLENGTH](#)
- [F_BLOBSEGMENTCOUNT](#)
- [F_BLOBSIZE](#)
- [F_BLOBWORDCOUNT](#)

Compare

- [F_BLOBCMP](#)
- [F_BLOBCOMPARE](#)

Find/Determine

- [F_BLOBSTRPOS](#)
- [F_BLOBTEXTPOS](#)

UUID Functions

Create

- F_UUID1MAC
- F_UUID1MACCOMPR
- F_UUID1RAND
- F_UUID1RANDCOMPR
- F_UUID4
- F_UUID4COMPR

Transform

- F_UUID2UUIDCOMPR
- F_UUIDCOMPR2UUID

Read

- F_UUID1COMPRTIMESTAMP
- F_UUID1MACCOMPRMAC
- F_UUID1MACMAC
- F_UUID1TIMESTAMP
- F_UUIDVERSION

Converting Functions

Length Units

- F_C_CH2M
- F_C_FM2M
- F_C_FT2M
- F_C_FUR2M
- F_C_IN2M
- F_C_KM2LEA
- F_C_KM2MILE
- F_C_LEA2KM
- F_C_LI2M
- F_C_M2CH
- F_C_M2FM
- F_C_M2FT
- F_C_M2FUR
- F_C_M2IN
- F_C_M2LI
- F_C_M2RD
- F_C_M2YD
- F_C_MILE2KM
- F_C_MM2P
- F_C_P2MM

- [F_C_RD2M](#)
- [F_C_YD2M](#)

Area Units

- [F_C_AC2SQM](#)
- [F_C_AR2SQM](#)
- [F_C_HA2SQM](#)
- [F_C_MORGEN2SQM](#)
- [F_C_SQFT2SQM](#)
- [F_C_SQM2AC](#)
- [F_C_SQM2AR](#)
- [F_C_SQM2HA](#)
- [F_C_SQM2MORGEN](#)
- [F_C_SQM2SQFT](#)
- [F_C_SQM2SQYD](#)
- [F_C_SQYD2SQM](#)

Volume Units

- [F_C_BBL2L](#)
- [F_C_CUFT2CUM](#)
- [F_C_CUIN2CUM](#)
- [F_C_CUM2CUFT](#)
- [F_C_CUM2CUIN](#)
- [F_C_CUM2CUYD](#)
- [F_C_CUP2ML](#)
- [F_C_CUYD2CUM](#)
- [F_C_GBBU2L](#)
- [F_C_GBFLOZ2ML](#)
- [F_C_GBGAL2L](#)
- [F_C_GBPT2L](#)
- [F_C_GBQT2L](#)
- [F_C_L2BBL](#)
- [F_C_L2GBBU](#)
- [F_C_L2GBGAL](#)
- [F_C_L2GBPT](#)
- [F_C_L2GBQT](#)
- [F_C_L2USBU](#)
- [F_C_L2USGAL](#)
- [F_C_L2USPT](#)
- [F_C_L2USQT](#)
- [F_C_ML2CUP](#)
- [F_C_ML2GBFLOZ](#)
- [F_C_ML2USFLOZ](#)
- [F_C_USB2L](#)
- [F_C_USFLOZ2ML](#)
- [F_C_USGAL2L](#)
- [F_C_USPT2L](#)
- [F_C_USQT2L](#)

Weight Units

- F_C_CT2G
- F_C_CWT2G
- F_C_DRA2G
- F_C_G2CT
- F_C_G2CWT
- F_C_G2DRA
- F_C_G2OBU
- F_C_G2OZ
- F_C_G2OZTR
- F_C_G2ST
- F_C_KG2LB
- F_C_LB2KG
- F_C_OBU2G
- F_C_OZ2G
- F_C_OZTR2G
- F_C_ST2G

Temperature Units

- F_C_C2F
- F_C_F2C

Date/Time Units

- F_C_DECTIME2TIME
- F_C_INDTIME2TIME
- F_C_TIME2DECTIME
- F_C_TIME2INDTIME
- F_LOCAL2UTC
- F.UTC2LOCAL

Technical Units

- Consumption
 - F_C_KMPL2L100KM
 - F_C_L100KM2KMPL
 - F_C_L100KM2MPGBGAL
 - F_C_L100KM2MPL
 - F_C_L100KM2MPGBGAL
 - F_C_MPGBGAL2L100KM
 - F_C_MPL2L100KM
 - F_C_MPUSGAL2L100KM
- Energy/Worg
 - F_C_CAL2J
 - F_C_J2CAL
 - F_C_LBFT2NM
 - F_C_NM2LBFT
- Magnetism
 - F_C_G2T
 - F_C_T2G

- Power
 - F_C_BHP2KW
 - F_C_KW2BHP
 - F_C_KW2PS
 - F_C_PS2KW
- Pressure
 - F_C_BAR2PA
 - F_C_BAR2TORR
 - F_C_PA2BAR
 - F_C_PA2PSI
 - F_C_PA2TORR
 - F_C_PSI2PA
 - F_C_TORR2BAR
 - F_C_TORR2PA
- Speed
 - F_C_FPS2MPS
 - F_C_KMPH2MPH
 - F_C_MPH2KMPH
 - F_C_MPS2FPS

Nautical Units

- F_C_CBL2M
- F_C_CBM2RT
- F_C_KM2SM
- F_C_KMPH2SMPH
- F_C_M2CBL
- F_C_M2NL
- F_C_M2NM
- F_C_M2SHOT
- F_C_NL2M
- F_C_NM2M
- F_C_RT2CBM
- F_C_SHOT2M
- F_C_SM2KM
- F_C_SMPH2KMPH

Number Systems

- F_ARABIC2ROMAN
- F_CONVERTFROM33
- F_CONVERTFROMBASE
- F_CONVERTTO33
- F_CONVERTTOBASE
- F_HEXTOINT
- F_INTTOHEX
- F_ROMAN2ARABIC

Geometrical Transformations

- F_DEGTORAD

Checksum Functions

Common Mathematical Algorithm

- F_CROSSDIFF
- F_CROSSSUM
- F_ITERATECROSSSUM
- F_WEIGHTCROSSSUM

Employed Checksums CheckDigits

- F_20F5CHECK, F_20F5
- F_CODE39CHECK, F_CODE39
- F_ENCRYPTMD5
- F_GTIN8
- F_GTIN8CHECK
- F_GTIN13
- F_GTIN13CHECK
- F_GTIN14
- F_GTIN14CHECK
- F_ISBN10CHECK, F_ISBN10
- F_ISBN13CHECK, F_ISBN13
- F_ISSN8CHECK, F_ISSN8
- F_NVE18
- F_NVE18CHECK
- F_UPC12
- F_UPC12CHECK
- F_UPSTNCHECK, F_UPSTN

Functions for Constants

Numeric Constants

- F_E
- F_EPSILON
- F_PI

Physical Constants

- F_C
- F_G
- F_KELVIN

Diverse Functions

Diverse Functions

- [F_IF](#)
- [F_OSLANGUAGE](#)
- [F_VERSION](#)
- [F_VERSIONNAME](#)

NVL Functions

- [F_DNVL](#)
- [F_DNVL2](#)
- [F_INVL](#)
- [F_INVL2](#)
- [F_SNVL](#)
- [F_SNVL2](#)

File Functions

With Blobs

- [F_BLOBLOAD](#)
- [F_BLOBSAVE](#)

Diverse File Functions

- [F_FILEVERSION](#)

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