

BQL SYSTEM FILE LAYOUTS

Last updated: 2004 Feb 27 by Chris McIntyre

FILE: BQL.SYSTEM

< 0> Database Number, (DBNUM), sequentially generated positive integer
< 1, 1> File date (sv,00) Standard..... DATE
< 1, 2> File time (sv,00) Standard..... INTERNAL TIME
< 1, 3> File user login id (sv,00) Record ID..... MP.USERS
< 1, 4> File host mach name (sv,00) Table
< 1, 5> File port (sv,00) Integer
< 1, 6> File account (sv,00) Table
< 2 > Screen list (mv,02) Record ID BQL.SCRINFO
The list of all the subscreens included in this database.
The sequence of screens in this list becomes the sequence of the
screens at run-time.
< 3 > Screen list Incl flag (mv,02) Standard FLAG_01
Flags whether the screen id listed in att 2 is to be included in
the database construction.
< 4, 1> BQL.SECTABLES id to supplementally modify UPD
< 4, 2> BQL.SECTABLES id to allow access to screen
< 5 > WRITEBUFFOK flag
0 = NOT ok to perform the system WRITE of the record
1 = it is ok to perform the system WRITE of the record
null = it is ok to perform the system WRITE of the record
< 6 > Description (sv,00) Standard TEXT
< 7 > File name (sv,00) Standard TEXT
The name of the file. This would be the most important and
critical field in this record.
< 8 > hard coded item id to use for this edit session
< 9 > Screen title (sv,00) Standard TEXT
<10 > Numbering pattern (sv,00) Standard TEXT
A code that designates what kind of numbering pattern to use
when assigning field numbers. 1=LR top bottom, 2=top bottom LR
<11 > Begin FLU with 1 flag (sv,00) Standard FLAG_01
1 = Begin a screen's auto field numbering with the number 1.
0 = Begin a screen's auto field numbering beginning with the
next
FLU value in sequence after the previous screen.
<12 > Abandoned, available
<13 > Block renumbering flag (sv,00) Standard FLAG_01
1 = The renumbering function is blocked.
0 = OK to renumber the fields.
<14 > available (used as CMODE override ok flag until 03/05)
<15 > Flag: Prompt user to verify if new record item ID is ok.x
<16, 1> Beginning CMODE for existing records
<16, 2> Beginning CMODE for new records

<17, 1> Beginning FLU for existing records
 <17, 2> Beginning FLU for new records
 <18 > Passed ID OK flag (sv,00) Standard FLAG_01
 1 = OK to pass an item id into the screen driver program
 through the parameter list.
 0 = not OK to do so.
 <19, 1> flag, OK for user to change EMODE
 <19, 2> flag, OK to print "FILED! " message
 <19, 3> flag, Auto exit when record filed.
 <19, 4> flag, Print RECID in banner
 <19, 5> flag, Use arrow key routine for MIP
 <19, 6> integer, att# to autofile standard time and date stamp into
 <19, 7> INQ lockout flag. If set, issue a denied msg when trying to
 access any field
 <20 > mv list of valid accounts for this screen to run in
 <21 > Get id method (sv,00) Standard
 Code that designates which method is used to capture
 or generate the edited record's item id.
 Lookup in BQL.CONSTANT
 1 = prompt using PRINTERR (quick, simple)
 2 = prompt using definitions from the file BQL.GETID. See
 specs for this file for more info.
 3 and above for future use
 <22 > UPD override flag (sv,00) Standard FLAG_01
 1 = updates allowed
 0 = updates not allowed
 This modifies the run-time flag variable UPD that is set
 according
 to a parameter passed into the screendriver.
 <23 > New items OK flag (sv,00) Standard FLAG_01
 0 = New items not allowed. Editing only allowed on existing
 items.
 1 = New items allowed.
 <24 > Unused
 <25 > AUTOGEN flag (sv,00) Standard FLAG_01
 if set, screendriver will wait until file-time to generate the
 item ID using the default system id generation algorithm.
 <26 > unused (formerly Auto gen new ids flag)
 <27 > unused (formerly Generate id subr name)
 <28 > PROMPT/AUTOGEN id subroutine name (sv,00) Standard TEXT
 Name of the supplemental subroutine to prompt for and
 capture the item id (if not using BQL techniques).
 CALLPOINT = 16
 <29, 1> File error check subr (sv,00) Standard TEXT
 Name of subroutine called after user has requested
 filing, but before comitting to filing. Allows extra
 record validation checks before filing.
 (This routine, and all supplemental subroutines hooked
 into the screen driver, generally are positioned within
 the screen driver logic to allow specific functions
 to occur at their proper point, but they may also be
 used to allow any other code a programmer feels useful.
 CALLPOINT = 9
 <29, 2> Pre-filing subr (sv,00) Standard TEXT

Name of subroutine called just prior to screen driver's WRITE command filing the record. Can be used to auto-insert "Last Update" info.
CALLPOINT = 11

<29, 3> Post filing subr (sv,00) Standard TEXT
Name of subroutine called just after screen driver's WRITE command filing the record.
CALLPOINT = 12

<29, 4> Post-read Pre-edit subr (sv,00) Standard TEXT
Name of subroutine called after a record has been read from its file, before editing begins, before display buffers are loaded.
CALLPOINT = 13

<29, 5> Fill screen supp. subr (sv,00) Standard TEXT
Name of subroutine called at the time the Fill Screen routine is called.
CALLPOINT = 8

<29, 6> Init begin subr (sv,00) Standard TEXT
Name of subroutine called at the beginning of the system initialization subroutine.
CALLPOINT = 15
There's a problem with this. CP 15 tries to use a reference to its subr that doesn't exist yet because BQL.GETRUNDATA hasn't been called yet. cm 10/05

<29, 7> Init end subr (sv,00) Standard TEXT
Name of subroutine called at the end of the system initialization subroutine
CALLPOINT = 6

<29, 8> Post read pre edit subr (sv,00) Standard TEXT
Name of subroutine called after a record has been read from its file, before editing begins, after display buffers are loaded.
CALLPOINT = 17

<29, 9> Post BQL.GETRUNDATA sub (sv,00) Standard TEXT
Name of subroutine called after the return from the BQL.GETRUNDATA subroutine.
CALLPOINT = 18

<29, 10> Pre main prompt subr (sv,00) Standard TEXT
Name of subroutine called before entering main prompt loop.
CALLPOINT = 19

<29, 11> post getid pre-read (sv,00) Standard TEXT
Name of subroutine called after record id has been established and existing record has been read
CALLPOINT = 20

<29, 12> post field int (sv,00) Standard TEXT
Name of subroutine called after field initialization has been done
CALLPOINT = 25

<29, 13> Modify KEY1
CALLPOINT = 26

<29, 14> Alternate Record Exit Prompt
CALLPOINT = 28

<29, 15> Modify MIP

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CALLPOINT = 29
<29, 16> Supplemental item id validation
CALLPOINT = 30
<29, 17> After Background Screen generation
CALLPOINT = 31
<29, 18> Before Print Screen
CALLPOINT = 32
<29, 19> After Print Screen
CALLPOINT = 33
<29, 20> Alternate routine to get printer# in Print Screen
CALLPOINT = 34
<29, 21> Logic to supplement setup of NEED.TO.FILE when 'F'iling
CALLPOINT = 35
<29, 22> Logic to supplement setup of UPD at initialization time
CALLPOINT = 39
<30 > Default External subroutine name
<31 > Z command subroutine (mv,31) Standard TEXT
Name of subroutine that is triggered by special commands
prefixed with a 'Z', displayed on the screen driver
menu bar.
<32 > Z command menu text (mv,31) Standard TEXT
Text of the command as it appears on the menu bar
<33 > Z command securtiy tbl (mv,31) File Lookup BQL.SECTABLES
Security table controlling access to this menu item
<34 > Z command alternate triggers.
Put a short (suggest 1 or 2 chars) string in here that will be
put on the menubar as the characters that can be entered at the
'Select:' prompt to trigger this Z command
<35 > Deletions OK flag (sv,00) Standard FLAG_01
Flag indicating if deletions are allowed.
<36 > Deletion security table (sv,00) File Lookup BQL.SECTABLES
Security table used to control setting of delete ok flag
<37 > Field follow character (sv,00) Standard Text
Character(s) to automatically follow field #s in BS logic.
<38> character to automatically right-fill the prompt field.
<39, 1> RUNLOG flag, BQL system entry
<39, 2> RUNLOG flag, BQL system exit
<39, 3> RUNLOG flag, BQL file time
<39, 4> RUNLOG flag, BQL delete record
<40, n> (mv 39) RUNLOG sectable
<41, 1> .Q Info Pgm access table
<41, 2> ??HELP Runtime edit access table
<41, 3> FOOTER Runtime edit access table
<42 > reserved for use at run time
<43 > mv, list of additional dcat2 types to include in run-time tables

<44, 1> Screen item ID Include flag
<44, 2> Screen item ID BQL.SCRINFO id of screen to prompt on
<44, 3> Screen item ID Display on all other subscreens flag
<44, 4> Screen item ID Anchor X
<44, 5> Screen item ID Anchor Y
<44, 6> Screen item ID prompt text
<44, 7> Screen item ID prompt X offset
<44, 8> Screen item ID prompt Y offset

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<44, 9> Screen item ID prompt justification
<44,10> Screen item ID prompt fill char
<44,11> Screen item ID prompt field width
<44,12> Screen item ID data X offest
<44,13> Screen item ID data Y offset
<44,14> Screen item ID data justification
<44,15> Screen item ID data fill char
<44,16> Screen item ID data field width

<45-55> unused
<55> (mv,64) getid lookup display exsubr (callpoint 38)
<56> (mv,64) getid lookup display Column heading
<57> (mv,64) getid lookup display Justification
<58> (mv,64) getid lookup display Column width
<59> (mv,69) getid lookup SELECT prompt
<60> (mv,69) getid lookup SELECT oconvert
<61> (sv) Standard Flag.1/0
Flag controlling whether to prompt the user to select and/or
re-arrange the available getid lookup SORT dictionaries.
<62> (mv,69) getid lookup SELECT relational operator
<63> (mv,69) getid lookup SELECT mandatory value
<64> (mv,64) getid lookup display data Attribute
<65> (mv,64) getid lookup display data Value
<66> (mv,64) getid lookup display data Sub-value
<67> (mv,64) getid lookup display data Quickie OCONV
<68> (mv,00) getid lookup SORT dictionaries
<69> (mv,69) getid lookup SELECT dictionaries
<70> (sv) getid lookup display format
<71> (mv,69) getid lookup SELECT add leading [ wildcard y/n
<72> (mv,69) getid lookup SELECT add trailing ] wildcard y/n
<73> (mv,73) supplemental BS include flag
<74> (mv,73) supplemental BS x offset
<75> (mv,73) supplemental BS y offset
<76> (mv,73) supplemental BS x repeat count
<77> (mv,73) supplemental BS y repeat count
<78> (mv,73) supplemental BS character string
<79> (mv,69) getid lookup SELECT force DOWNCASE flag
<80> (mv,64) getid lookup display data FMT string
FILE: BQL.SYSTEM
^^^

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vvv

BQL.SCRINFO

This file contains data specific to one screen

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< 0> DBNUM.SCREEN#
< 1, 1> File date (sv,00) Standard..... DATE
< 1, 2> File time (sv,00) Standard..... INTERNAL TIME
< 1, 3> File user login id (sv,00) Record ID..... MP.USERS
< 1, 4> File host mach name (sv,00) Table
< 1, 5> File port (sv,00) Integer
< 1, 6> File account (sv,00) Table
< 2 > Field list (mv,02) Record ID BQL.FLDINFO
The list of all single valued fields on this screen.
< 3 > Field include flags (mv,02) Standard FLAG_01

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< 4 > Window list (mv,04) Record ID BQL.MULTI1
The list of all multi valued windows on this screen.
< 5, > Window include flags (mv,04) Standard FLAG_01
< 6 > Beginning FLU value (sv,00) Standard INTEGER
null = Begin this screen's auto field numbering with the next
value after the previous screen.
# = Begin this screen's auto field numbering beginning
with this #.
< 7 > Block renumbering flag(sv,00) Standard FLAG_01
1 = The renumbering function is blocked.
0 = OK to renumber the fields.
< 8 > Paint Order (sv,00) Standard TEXT
A code that designates what kind of numbering pattern to use
when assigning field numbers. 1=LR top bottom, 2=top bottom LR
< 9 > SCR assigned from last renumbering.
<10 > Header to override System header.
<11 > Security access list (sv,00) Record ID BQL.SECTABLES
The security table list controlling access to this screen.
<12> thru <72> unused
<73> mv supplemental BS include flag
<74> mv supplemental BS x offset
<75> mv supplemental BS y offset
<76> mv supplemental BS x repeat count
<77> mv supplemental BS y repeat count
<78> mv supplemental BS character string
BQL.SCRINFO

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FILE: BQL.FLDINFO (56)

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< 0 > DBNUM.fldtextname. Fldtextname is short, user-defined, text
desc.
< 1, 1> File date (sv,00) Standard..... DATE
< 1, 2> File time (sv,00) Standard..... INTERNAL TIME
< 1, 3> File user login id (sv,00) Record ID..... MP.USERS
< 1, 4> File host mach name (sv,00) Table
< 1, 5> File port (sv,00) Integer
< 1, 6> File account (sv,00) Table
< 2 > SCRINFO ID (sv,00) Record ID BQL.SCRINFO
ID of the BQL.SCRINFO item that this field is associated with.
< 3 > unused
< 4 > unused
< 5 > ORD Field visit order (sv,00) Standard Integer
This attribute seems unused/obsolete, but not sure. Gets set
up in BQL.GETRUNDATA but cant find any reference to its use
after that. Also see BQL.MULTI1<8>. cm 11/05
< 6 > Include flag (sv,00) Standard..... Flag_01
"Comment" flag. If 1, pgm logic uses this item in its screen
compilations. Item is ommited if flag is 0.
< 7 > unused
< 8, > Blank Fieldspace? (sv,00) Standard Flag_01
Controls whether the system blanks the data entry field space
before data entry. 1=blank, 0=no blank.
< 9 > Block renumbering? (sv,00) Standard Flag_01
1=blocked, no renumbering. 0=ok to renumber.

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<10 > FLD Field number (sv,00) Standard Integer
Index into various data structures that are organized by field.
Represented in the code with the variable name FLD.

<11 > SCR Screen number (sv,00) Standard Integer
Index into various data structures that are organized by screen.
Represented in the code with the variable name SCR.

<12 > FLU User field number (sv,00) Standard Integer
Index into various data structures that are organized by the
field number displayed on the screen (not the same as FLD).
Represented in the code with the variable name FLU.

<13 > field anchor x coordinate
<14 > field anchor y coordinate
<15 > number, flag, Include (dont suppress display) field number?
<16 > number, x offset
<17 > number, y offset
<18 > number, justification
<19 > number, fill character code
<20 > number, field width
<21 > prompt, text
<22 > prompt, flag, Include (dont suppress display) prompt?
<23 > prompt, x offset
<24 > prompt, y offset
<25 > prompt, justification
<26 > prompt, fill character code
<27 > prompt, field width
<28 > NUMBERED FIELD FLAG
(sv,00) Standard..... Flag_10
This flag indicates if the field is to be assigned a number.
Default to 1. Note this is different than the display field
flag.

The display field flag controls whether the field number is
displayed, but would only apply if the field has a number.

<29 > MINIMUM FLU VALUE
(sv,00) Standard Integer
If non-null, set the FLU to at least this value.
If null, continue the standard sequence.

<30> data, record buffer 1=RBUFF(1), 2=RBUFF(2)
<31> data, record ATTRIBUTE
<32> data, record VALUE
<33> data, record SUB-VALUE
<34> data, default external entry
<35> data, x offset
<36> data, y offset
<37> data, justification
<38> data, fill character code
<39> data, field width
<40> data, mandatory flag
<41, 1> SECTABLE controlling whether the field is displayed on the
screen
<41, 2> SECTABLE controlling user's access to edit the field
<41, 3> SECTABLE controlling user's ability to delete the field
<42> flag, Display only (don't allow editing)?
<43> secondary display item (DISBUFF2) attribute (see atts 65-68)
<44> secondary display data field x coordinate offset

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<45>      secondary display data field y coordinate offset
<46>      secondary display data field justification
<47>      secondary display data field fill character code
<48>      secondary display data field width
<49  >    FLAG
          (sv,00) Standard..... FLAG_10
          When in INQ mode, determines if data "sticks" after cursor
leaves field
<50>      Field entry mode, null=normal, 1=normal, 2=subscroll, 3=mini
wp, 4=user defined
<51  >    conversion applied to input
<52, 1>   Field entry Mode 4: window xpos
<52, 1>   Field entry Mode 4: window ypos
<52, 1>   Field entry Mode 4: window depth
<52, 1>   Field entry Mode 4: window width
<53>      unused
<54, 1>   ext subr, supplemental field validation      (04)
<54, 2>   ext subr, field accessible check             (10)?
<54, 3>   ext subr, field lookup                       (05)
<54, 4>   ext subr, field pre field-process execute   (01)
<54, 5>   ext subr, field post field-process execute  (02)
<54, 6>   ext subr, field post KEY1 capture           (14)
<54, 7>   ext subr, post BLOAD, pre BDISP             (27)
<54, 8>   ext subr, EMODE 4 input routine             (36)
<54, 9>   ext subr, supp fld valid'n w/override      (37)
<55>      secondary display
<56>      unused
<57, 1>   OCONV string
<57, 2>   EXT Format # (BQL.CONSTANT EXT_FORMATS)
<58, 1>   data range limit low
<58, 2>   data range limit high
<59, 1>   data category 1 type
<59, 2>   data category 2 type
<59, 3>   data category 3 type
<59, 4>   data category 4 type
<59, 5>   data category 5 type
<59, 6>   data category 6 type
<59, 7>   data category 7 type
<60, >   I think this is abandoned, available but needs clearing out
<61, >   Blank Fill character (sv,00) Standard      Text
          If oconverted display is blank, fill the field space with this
char.
<62  >    unused
<63>      ?? Help message
<64  >    FOOTER HELP MESSAGE
          (sv,00) Standard..... Text
          Help message. Auto displayed w/PRINTERR at field edit time.
<65  >    secondary display item (DISBUFF2) value (see atts 43-48)
<66  >    secondary display item (DISBUFF2) subvalue
<67  >    secondary display item (DISBUFF2) oconv
<68  >    secondary display item (DISBUFF2) fmt function
<69-72>  unused
<73>      (mv) supplemental BS include flag
<74>      (mv) supplemental BS x offset

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<75> (mv) supplemental BS y offset
<76> (mv) supplemental BS x repeat count
<77> (mv) supplemental BS y repeat count
<78> (mv) supplemental BS character string
FILE: BQL.FLDINFO

FILE: BQL.MULTI1 (57)

BQL.MULTI1 contains data specific to one entire multi-value window.

< 0> DBNUM.mvwindowname
< 1,1> file date
< 1,2> file time
< 1,3> file user login id
< 1,4> file host machine name
< 1,5> file port
< 1,6> file account
< 2> BQL.SCRINFO ID
< 3> unused
< 4> unused
< 5 > Numbering pattern (sv,00) Standard TEXT
A code that designates what kind of numbering pattern to use
when assigning field numbers. 1=LR top bottom, 2=top bottom LR
< 6> include flag
< 7> WINSIZE
< 8> ORD Field visit order. See applicable comment under
BQL.FLDINFO<5>
< 9> flag, Block window renumbering?
<10> FLD beginning fld number
<11> SCR screen number
<12> FLU beginning flu number
<13> window anchor x coordinate (MVW.ANCHORX)
<14> window anchor y coordinate (MVW.ANCHORY)
<15> attribute number, include (dont suppress printing) flag
<16> attribute number, x offset
<17> attribute number, y offset
<18> attribute number, justification
<19> attribute number, fill character code
<20> attribute number, field width
<21 > INSERTIONS OK
(sv,00) Standard..... Flag_10
Flags whether insertions are allowed in this MV window.
<22 > DELETIONS OK
(sv,00) Standard..... Flag_10
Flags whether deletions are allowed in this MV window.
<23 > PRESET HIGH VALUE FLAG
(sv,00) Standard..... Flag_10
This flag is checked each time a new record is read from the
source file. If set to 1, logic proceeds to re-position the
MVW window so that the upper range of values appears first
in the window. (The usual default is for the lower range,
beginning with 1, to appear first).
<24 > Attribute Wrap characters (sv,00) Standard Text
Characters that will be automatically wrapped around the
display of attribute numbers in the window

<25> unused
 <26> unused
 <27> additional att list (mv,27) integer
 <28 > Column list flags (mv,30) Standard FLAG_01
 <29> DEPTH window depth (# of rows in the window)
 <30 > Column list (mv,30) File Lookup BQL.MULTI2ex
 List of columns that will appear in this window. Sequence of
 cursor progression will depend on the order in which they are
 listed.
 <31> numbering method
 1=number all fields, 2=number leftmost column only
 <32 > MINIMUM FLU VALUE
 (sv,00) Standard Integer
 If non-null, begin numbering sequence of this window with this
 value. If null, continue the standard sequence.
 <33, > FLU ROW INCREMENT
 <34-40> unused
 <41, 1> SECTABLE unused
 <41, 2> SECTABLE controlling user's access to edit the mv window
 <41, 3> SECTABLE unused
 <42-72> unused
 <73> (mv) supplemental BS include flag
 <74> (mv) supplemental BS x offset
 <75> (mv) supplemental BS y offset
 <76> (mv) supplemental BS x repeat count
 <77> (mv) supplemental BS y repeat count
 <78> (mv) supplemental BS character string
 FILE: BQL.MULTI1

FILE: BQL.MULTI2 (58)

BQL.MULTI2 contains data specific to one specific column in an MV window (corresponding to one attribute).

< 0> DBNUM.mvwcolumnname
 < 1,1> file date
 < 1,2> file time
 < 1,3> file user login id
 < 1,4> file host machine name
 < 1,5> file port
 < 1,6> file account
 < 2> unused
 < 3> unused
 < 4> unused
 < 5> unused
 < 6> include flag
 < 7> associated BQL.MULTI1 item
 < 8 > sv... Standard Flag_10
 Controls if fieldspace is blanked before data entry.
 < 9> unused
 <10> unused (FLD, calc'ed at run time using FLD in MULTI1)
 <11> unused (SCR, comes from MULTI1)
 <12> unused (FLU, calc'ed at run time using FLU in MULTI1)
 <13> unused (field anchor x coordinate, comes from MULTI1)
 <14> unused (field anchor y coordinate, comes from MULTI1)

(all NUMBER flds (15-20) applicapble only if this
BQL.MULTI2 item is being used for leftmost column)

- <15> number display flag
- <16> number x offset
- <17> number y offset
- <18> number justification
- <19> number fill char code
- <20> number field width
- <21> prompt, text
- <22> prompt, include flag
- <23> prompt, x offset
- <24> prompt, y offset
- <25> prompt, justification
- <26> prompt, fill char code
- <27> prompt, field width
- <28 > NUMBERED FIELD FLAG
(sv,00) Standard..... Flag_10
This flag indicates if the field is to be assigned a number.
Defaults to 1. Note this is different than the display field
flag.
The display field flag controls whether the field number is
displayed, and would only apply if the field has a number.
- <29 > unused
- <30> data, record buffer, 1=RBUFF, 2=GBUFF (pls check this
description)
- <31> data, record attribute
- <32> unused
- <33> data, record subvalue
- <34> data, default external entry
- <35> data, x offset
- <36> data, y offset (added to anchor AND row)
- <37> data, justification
- <38> data, fill char code
- <39> data, field width
- <40> data, mandatory flag
- <41, 1> SECTABLE controlling whether the field is displayed on the screen
- <41, 2> SECTABLE controlling user's access to edit the field
- <41, 3> SECTABLE controlling user's ability to delete the field
- <42> flag, Display only (don't allow editing)?
- <43> secondary display data field, attribute
- <44> secondary display data field x coordinate offset
- <45> secondary display data field y coordinate offset
- <46> secondary display data field justification
- <47> secondary display data field fill character code
- <48> secondary display data field width
- <49 > TEFLON FLAG
(sv,00) Standard..... FLAG_10
Controls access much like 'Display Only' flag but allows more.
When in INQ mode, determines if data "sticks" after cursor
leaves field
- <50> Field entry mode null=normal, 1=normal, 2=sub scroll, 3=mini word
proc, 4=user defined
- <51 > conversion applied to input
- <52> field lookup sample limit override

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<53>    unused
<51>    lookup subroutine override
<52>    pre-field execute subroutine
<53>    post-field execute subroutine
<54, 1> ext subr,    supplemental field validation        (04)
<54, 2> ext subr,    field accessible check                (10)?
<54, 3> ext subr,    field lookup                          (05)
<54, 4> ext subr,    field pre  field-process execute    (01)
<54, 5> ext subr,    field post field-process execute    (02)
<54, 6> ext subr,    field post KEY1 capture              (14)
<54, 7> ext subr,    post BLOAD, pre BDISP                (27)
<54, 8> ext subr,    EMODE 4 input routine                (36)
<54, 9> ext subr,    supp fld valid'n w/override          (37)
<55>    unused
<56>    unused
<57, 1> OCONV string
<57, 2> EXT Format # (BQL.CONSTANT EXT_FORMATS)
<58, 1> data range limit low
<58, 2> data range limit high
<59, 1> data category 1 type
<59, 2> data category 2 type
<59, 3> data category 3 type
<59, 4> data category 4 type
<59, 5> data category 5 type
<59, 6> data category 6 type
<59, 7> data category 7 type
<60>    unused
<61, >  Blank Fill character    (sv,00) Standard          Text
        If oconverted display is blank, fill the field space with this
char.
<62>    unused
<63>    ?? Help message
<64 >  FOOTER HELP MESSAGE
        (sv,00) Standard..... Text
        Help message. Auto displayed w/PRINTERR at field edit time.
<65 >  secondary display item (DISBUFF2) value (see atts 43-48)
<66 >  secondary display item (DISBUFF2) subvalue
<67 >  secondary display item (DISBUFF2) oconv
<68 >  secondary display item (DISBUFF2) fmt function
<69>    unused
<70>    unused
<71>    unused
<72>    unused
<73>    (mv) supplemental BS include flag
<74>    (mv) supplemental BS x offset
<75>    (mv) supplemental BS y offset
<76>    (mv) supplemental BS x repeat count
<77>    (mv) supplemental BS y repeat count
<78>    (mv) supplemental BS character string
FILE:    BQL.MULTI2

```

```

FILE:    BQL.SECTABLES (59)
SECLIST is an item holding lists of security codes

```

< 1, 1> = last update logname
 < 1, 2> = last update date
 < 1, 3> = last update time
 < 2> = description
 < 3> = AUDIT File only (original record id)
 < 4> = AUDIT File only. (user info)
 < 4, 1> = @logname
 < 4, 2> = date
 < 4, 3> = time
 < 4, 4> = hostname
 < 4, 5> = @userno (port #)
 < 4, 6> = @who (account)
 < 5> = unused
 < 6> = mv User security grps that are valid or are to be included
 < 7> = mv User security grps that are invalid or are to be excluded
 < 8> = mv Login ids that are valid or are to be included
 < 9> = mv Login ids that are invalid or are to be excluded
 <10> = mv User security grps that are allowed to edit THIS RECORD
 <11> = mv Login ids that are allowed to edit THIS RECORD

FILE: BQL.GETID

< 0> DBNUM.TEXTID
 < 1> creation info: date,time,loginid
 < 2> install info: date,time,loginid
 < 3> un-install info: date,time,loginid
 < 4> unused
 < 5> unused
 < 6> include flag
 < 7> constructor comment, free text
 < 8> unused
 < 9> unused
 <10> unused (fld)
 <11> screen number
 <12> unused (flu)
 <13> field anchor x coordinate
 <14> field anchor y coordinate
 <15> unused (number include flag)
 <16> unused (number x offset)
 <17> unused (number y offset)
 <18> unused (number justification)
 <19> unused (number fill character)
 <20> unused (number field width)
 <21> prompt, text
 <22> prompt, include flag
 <23> prompt, x offset
 <24> prompt, y offset
 <25> prompt, justification
 <26> prompt, fill character
 <27> prompt, field width
 <28> unused (data, data category)
 <29> data, data type
 <30> data, data external format

```

<31> unused (data, record attribute
<32> unused (data, record value
<33> unused (data, record sub-value
<34> data, default external entry
<35> data, x offset
<36> data, y offset
<37> data, justification
<38> data, fill character
<39> data, field width
<40> unused (data, mandatory flag
<41> unused (field access flags; mv1=display, mv2=edit, mv3=delete
<42> unused
<43> unused
<44> Get ID Lookup default display format      ?
<45> Get ID Lookup SORT dictionaries (mv)      ?
<46> Get ID Lookup SELECT dictionaries (mv)    ?
<46> Get ID Lookup TAB2 prep attribute         ?
<47> Get ID Lookup TAB2 prep value            ?
<48> Get ID Lookup TAB2 prep sub value        ?
<49> Get ID Lookup TAB2 prep quickie OCONV    ?
^^^ FILE:      BQL.GETID

```

```

vvv FILE:      BQL.DATACAT2
< 0> itemid:  Sequentially generated numeric, no information encoded
< 1> File name
< 2> unused
      note: atts 2-10 were previously used.  Leftover, abandoned data may
still
      be in these attributes somewhere but should be deletable.
< 3> unused
< 4> unused
< 5> unused
< 6> unused
< 7> unused
< 8> unused
< 9> unused
<10> unused
<11> .L Field Lookup default display format (check to see if this is a
dup of att 8)
<12> .L Field Lookup Select dictionaries (mv)
<13> .L Field Lookup Display attribute
<14> .L Field Lookup Display value
<15> .L Field Lookup Display sub value
<16> .L Field Lookup Display OCONV.
      currently (04/05) used in 2 places:  1) in field lookup displays.
      2) when setting up the DISBUFF2 (secondary display) item upon
OCONVersion.
      You probably want to split out these two functions some day.
<17> .L Field Lookup Select user input auto insert leading wild card [,
y/n
<18> .L Field Lookup Select user input auto insert trailing wild card ],
y/n
<19> .L Field Lookup Select user input auto OCONV

```

<20> .L Field Lookup Select user input alternate name for dict to use in prompting
<21> .L Hard coded literal to include in select clause. ex: TYP EQ "S""A""B"
<22> .L Field Lookup Display column heading
<23> .L Field Lookup Display column width
<24> .L Field Lookup Display column justification
<25> Time/date stamp
^^^ FILE: BQL.DATACAT2

vvv FILE: BQL.DATACAT3 vvv
Data category 3 items describe simple tables. Table is contained in one item with ordered, single-valued attributes. Internal value is the attribute#. External value is contents of the attribute.
example: PARAM MAC.SAM.RSNS
itemid: integer
< 1> filename
< 2> itemname
< 3> default display format id
< 4> internal form, 1=att#, 2=same as external form
??? below ???
< 5> attribute map, data cat
< 6> attribute map, data type
< 7> ?
< 8> attribute map, oconv
< 9> external validation match attribute

FILE: BQL.DATACAT4
< 1> description
< 2> validation subroutine callpoint 21
< 3> iconv subroutine callpoint 22
< 4> oconv subroutine callpoint 23
< 4> ??

FILE: BQL.DATACAT5
Simple table: One of the values stored in an un-ordered multivalued attribute of one item in a file. External value is the same as internal. Validate by lookup in table, but oconv, iconv is simple.
ex: att 1 in PARAM RENEWAL.NAMES
< 0> item id = numeric
< 1> constructor designated name
< 2> filename
< 3> itemname
< 4> attribute
< 5> default display format id
< 5> data cat
< 6> data type

FILE: BQL.DATACAT7

Another simple table:

- < 0> item id = numeric
- < 1> description/name
- < 2> filename
- < 3> itemname
- < 4> (mv,04) lookup display attributes. Attribute numbers in the table that are to be displayed during lookup.
- < 5> internal attribute. This is the attribute in the table that the internal value comes from
- < 6> display format id
- < 7> external attribute. This is the attribute in the table that the external value comes from
- < 8> abandoned
- < 9> (mv,04) lookup display. Match type F=full match, P=partial match
- <10> POS flag. If set, use val number as the internal data; if not set, store the actual code
- <11> (mv,04) Flags controlling whether matching is case sensitive.
- <12> time date stamp
- <13> (mv,04) lookup display. OCONVersions
- <14> (mv,04) lookup display. Column heading
- <15> (mv,04) lookup display. Column justification
- <16> (mv,04) lookup display. Column width

FILE: BQL.DISPLAY.FORMATS

itemid: whatever

DISPLAY.FORMAT has variable parameters that control the display.

- < 1> mv column heading text, blank if no headings
- < 2> Rows per window. Null ok, defaults to maximum.
- < 3> the number of STRIPES per window
- < 4> mv a mapping that designates the order in which the columns in TAB2 are displayed. This means columns in TAB2 need not be in the same order as they are to be displayed in.
 - > Multivalued in atts 5-8 correspond to display columns.
- < 5> mv justification
- < 6> mv fill character code
- < 7> mv field length
- < 8> mv spaces following the column
- < 9> Include number flag. Controls inclusion/suppression of numbering
- <10> number of blank lines after column heading line
- <11> left/right/up/down item paint order
 - (applies only to multi-STRIPES displays)
 - 1 = display items from left to right, top to bottom
 - 2 = display items from top to bottom, left to right
- <12> mv column numbers to search for text matches
- <13> description

FILE: BQL.RUNLOG
itemid: sequentially generated integer
< 1> @logname
< 2> date
< 3> time
< 4> hostname (r2d2, yoda, etc.)
< 5> @userno (port #)
< 6> @who (account name OCI.HC, MIPA.PPO, etc.)
< 7> dbnum (item id into BQL.SYSTEM)
< 8> call point (integer desinating where within the screen
the runlog was called.)
1 = BQL.SCREENDRIVER entry
2 = BQL.SCREENDRIVER exit
3 = BQL.SCREENDRIVER file-time
< 9> supplemental call point. (programmer use only)
<10> unused
<11> optional message supplied from the calling program

BQL.RUNLOG Dictionaries...

DBNUM

NAME

DATE

TIME

MACH

PORT

ACCT

MSG1 will be the ID of the filed record if CALLPOINT=2

CALLPOINT

- 1 = Log entry made when user entered the screen
- 2 = Log entry made when user filed a record in the screen
- 3 = Log entry made when user exited the screen

FILE: BQL.RUNLOG1
itemid: DBNUM (item id into BQL.SYSTEM)
< 1, 1> click count of BQL.SCREENDRIVER entries
< 1, 2> click count of BQL.SCREENDRIVER filings
< 1, 3> click count of BQL.SCREENDRIVER exits
< 2, 1> max history value entries
< 2, 2> max history value filings
< 2, 3> max history value exits
3-10 unused
<11> entry history @logname
<12> entry history date
<13> entry history time
<14> entry history hostname (r2d2, yoda, etc.)
<15> entry history @userno (port #)
<16> entry history @who (account name OCI.HC, MIPA.PPO, etc.)

