Release notes - filePro Plus 5.0
fP 5.0.14 and fPODBC/BIO 1.0.14

******** 5.0 New Features List located in DOCS directory ********

** IMPORTANT ** See changes below from prior releases ************

The filePro Plus 5.0 software and the documentation provided with it
are protected under United States Copyright Laws and is provided
subject to the terms and conditions of the filePro License Agreement.

PLEASE NOTE : the support and fax phone numbers listed in this readme
file are new. They have changed since the last release.

****

WWW   http://www.fptech.com
Support   support@fptech.com
Sales   sales@fptech.com
Management filepro@fptech.com

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To submit 5.0 bug reports
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1. FAX them to (317) 570-6609 clearly marking them as 5.0 bug reports
2. EMail them to fpsupport@fileproplus.com including the text
   5.0 Bug Report in the subject line
3. Call the customer support number (317) 570-6490

****

We wish to thank Jim Asman for sending us an entire set of HP printer
tables for inclusion in this release. You might wish to send him a note
of appreciation to root@spctra.wimsey.com Please view Jim's readme
file which has been placed in your fp\lib directory for any special
notes about these printer tables.

****

Contact Information

Surface Mail
   fP Technologies, Inc.
   PO Box 290352
   Tampa, FL 33617-0352

Phones
   Support   (317) 570-6490
   Sales   (800) 847-4740
   Fax   (212) 517-5982

Email
   Support   support@fptech.com
   Sales   sales@fptech.com
   Management filepro@fptech.com

Bug Reports

Email - support@fptech.com
        including the text 5.0 Bug Report in the subject line
FAX   - (877) 606-6853 marked as 5.0 bug report
Phone - (317) 570-6490

Writing clearly is essential in a bug report. If the programmer
can't tell what you meant, you might as well not have said
anything. We get bug reports from all around the world. Many of
them are from non-native English speakers, and a lot of those
apologise for their poor English. In general, the bug reports
with apologies for their poor English are actually very clear
and useful. All the most unclear reports come from native
English speakers who assume that We will understand them even
if they don't make any effort to be clear or precise.
Be specific. If you can do the same thing two different ways,
state which one you used. "I selected Load" might mean "I
clicked on Load" or "I pressed Alt-L". Say which you did.
Sometimes it matters.
Be verbose. Give more information rather than less. If you say
too much, the programmer can ignore some of it. If you say too
little, they have to come back and ask more questions. One bug
report we received was a single sentence; every time we asked for
more information, the reporter would reply with another single
sentence. It took me several weeks to get a useful amount of
information, because it turned up one short sentence at a time.
Be careful of pronouns. Don't use words like "it", or references
like "the window", when it's unclear what they mean. Consider
this: "I started FooApp. It put up a warning window. I tried to
close it and it crashed." It isn't clear what the user tried to
close. Did they try to close the warning window, or the whole of
FooApp? It makes a difference. Instead, you could say "I started
FooApp, which put up a warning window. I tried to close the
warning window, and FooApp crashed." This is longer and more
repetitive, but also clearer and less easy to misunderstand.
Read what you wrote. Read the report back to yourself, and see
if you think it's clear. If you have listed a sequence of actions
which should produce the failure, try following them yourself, to
see if you missed a step.
Summary
The first aim of a bug report is to let the programmer see the
failure with their own eyes. If you can't be with them to make it
fail in front of them, give them detailed instructions so that
they can make it fail for themselves.
In case the first aim doesn't succeed, and the programmer can't
see it failing themselves, the second aim of a bug report is to
describe what went wrong. Describe everything in detail. State
what you saw, and also state what you expected to see. Write down
the error messages, especially if they have numbers in.
When your computer does something unexpected, freeze. Do nothing
until you're calm, and don't do anything that you think might be
dangerous.
By all means try to diagnose the fault yourself if you think you
can, but if you do, you should still report the symptoms as well.
Be ready to provide extra information if the programmer needs it.
If they didn't need it, they wouldn't be asking for it. They aren't
being deliberately awkward. Have version numbers at your fingertips,
because they will probably be needed.
Write clearly. Say what you mean, and make sure it can't be misinterpreted.

Above all, be precise. Programmers like precision.

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5.0.14 Release Notes
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(ODBC) #726

   PFODBCCOMMITTYPE=n

   Selects the open-commit-type to use for high-level ODBC data sources,
   where:

        0 = "SELECT * FROM tablename" (default)
                 Very slow on some data sources with very large files,
                 but uses nothing non-standard.
        1 = "SELECT * FROM tablename WHERE id_field = nnn"
                 (Where "id_field" is the name of the ID field, and "nnn"
                 is a valid ID.)
                 Usually faster, but may be slower on some systems, as
                 filePro must first determine a valid ID to use.
        2 = "SELECT TOP 1 FROM tablename"
                 Fastest version, but "TOP 1" is non-standard and not
                 supported everwhere. Will cause ODBC failure on those
                 DSNs that don't support it.

(fPSQL) #1

   fPSQL now respects PFUMASK for output files it generates.

(All) #237

   If BREAK OFF is executed in a CALL/CHAIN process, it now remains off
   upon returning. Also, it is retored to ON if you go to a new record.

(*nix) #285

   fPCopy didn't copy formats with names longer than 14 characters.

(Network) #409

   If PFQUAL is set to a non-existent qualifier, the network version of
   filePro gave an incorrect error message.

(All) #550

   The page number was not reset before F8/hardcopy in *cabe.

(All) #634

   DECLAREd variables over 34 characters caused errors in *report.

(fileProGI) #663

   If you define buttons while displaying a record, go into browse, and
   come back, the buttons are gone.

(All) #666

WRITE was not blocked in a table CALLed from automatic.

(All) #681

PFCHECKLOCK didn't pick up some unprotected writes in browse lookups.

(All) #684

When defining processing from dmoedef, PFTOKSIZE was not respected if the file had no automatic processing table.

(fPSQL) #706

A query with a WHERE clause on a field with an automatic index built on it could fail if the index was built in descending order.

(All) #708

DECLARED variables defined without the ",g" attribute were not cleared between records.

(Linux) #711

Running "dcabe filename prcname" could crash on some Linux systems.

(All) #712

PFLOGAPPEND was actually LOGAPPEND. Changed to PFLOGAPPEND as per documentation.

(All) #717

Given the correct sequence of keystrokes, dmoedef could release its lock on the output format, thereby allowing more than one person to be updating it.

(All) #714

EXPORT ASCII with both "-a" and "-x" flags didn't work.

(All) #719

If you modify an index using the "save options without rebuild" and then tried to rebuild a different index, it wouldn't rebuild.

(*nix) #707, #722, #736

Some output formats saved under 4.8 dmoedef would crash 5.0 dmoedef.

(*nix) #724

Only root could delete files in ddir.

(All) #725

EXIT within a CALLed table did not exit, but acted like END.

(All) #727

"CLEAR arrayname" when the array is aliased to real fields did not
cause the record to be written if that were the only modification
made to the record.

(All) #728

ddir's "delete index" showed all index letters/numbers, even if those
indexes did not exist.

(Linux) #729

ddir would crash when deleting indexes.

(All) #733

dxmaint's "save options without rebuild" could corrupt idex.

(All) #734

When using *cabe's lookup wizard, using a non-existent qualifier in
the filename would crash *cabe.

(All) #735

dscreen would resolve @PD to only 20 characters, when it's really 80.

(All) #740

Although @ONCE in *report is documented as being run prior to any
output being done, it was run while sitting on the last record read
during the sort/select process. Some people thought that this meant
that it was sitting on a selected record.

@ONCE has now been fixed to be not sitting on any record. However,
some people depend on their incorrect interpretation of the old
behavior, so setting PFOLDONCE=ON will "revert back" to a modified
version of the old behavior, where it will now be run while sitting
on the last record _selected_ during the sort/select process.

Note that PFOLDONCE=ON may disappear in some future version.

(All) #747

If you were to DECLARE the same variable more than once, and then
press F6/D in *cabe to show dummy fields, *cabe could crash.

(All) #750

When a print code requiring a space is on an output format, and you
use F7 block functions to move it, the '%' marker is left behind.

(All) #752

When using F6 in pmaint's printer definition screen to change to
printer type, if you select a type with a shorter name than the
one currently there, the field was not properly cleared.

(All) #753

filePro used to accept a period in variable names. This is now not
allowed (it never should have been allowed in the first place), in
order to permit enhanced functionalities. To revert to the old
behavior and allow periods in variable names, you can set
PFLONGVARDOT=OLD. Note, however, that this will disable certain
features, such as access to ODBC and biometrics, which require that
periods not be allowed here.

(All) #757

BLOB/MEMO functions did not work within lookup files.

(All) #766

*cabe could crash when accessing a zero-length prc file.

(All) #767

MIN/MAX functions did not properly handle expressions as parameters.

(All) #80

Printing of MEMO fields now available.

(Network) #191

The network version of ddefine did not create qualified indexes on
new files.

(All) #709

EXPORT ASCII/WORD would always export the same number of fields,
regardless of whether the fields were assigned to on each record,
even if they were only referenced in a comment.

Now, filePro will only export the number of fields as the highest-
reference field actually assigned.

For example:

```
  If:
Then:  out[1] = 1 ; out[2] = 4
  If:  xx = "y"
Then:  out[3] = 3 ; out[4] = 4
  If:
Then:  ' out[5] = 5
```

filePro would previously always exported 5 fields. Now, if x="y"
is true, it will export 4 fields, and if false will export 2 fields.

To revert back to the old behavior, set PFEXPORTALL=ON.

(All) #282

If you do a fuzzy browse lookup on a field that has an index built
on it, the wrong instance will be shown in the browse.

Also, if you were in index mode on the main file, the wrong instance
would be shown, even though @AF was correct.

(All) #770

If you perform a browse lookup with a "-m" (must match) flag on an
index built across multiple fields, and the major sort key is a date
or time field, the "must match" portion was limited to the major sort
key only, regardless of the mlen parameter.

(All) #758

When using a browse lookup on a multi-field index, with "-m" (must
match) across multiple fields, it was possible to get an erroneous
"top of file" after scrolling down and then up again.

(fileProGI only) #720

No confirmation was asked for when deleting formats in ddir/dprodir.

(All) #773

When accessing BLOB/MEMO fields from lookup files, it was possible
for the data to get corrupted.

(All) #774

Under certain conditions, re-executing a fuzzy browse lookup could
cause filePro to crash.

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5.0.13 Release Notes
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(SCO only) #???

Fields with extended-ASCII characters (>=128) might not compare
correctly.

(All) #653

Browse lookups with only a single line could crash filePro.

(All) #662

DLEN() had an undocumented limit of 255 characters on the input
string. The input is now unlimited, and the output is limited
to 4095.

(*nix only) #667

Some *nix systems prevent a setuid program running with a real uid
of root from executing child processes. The previous workaround
(setting the real uid to "filepro" when running as root) causes
some things (such as printer banner pages) to report "filepro" as

the user.

Added "PFROOTFIX=OFF" to turn off the fix for systems that don't
require it.

(Native windows) #???

@ID will now contain the current user name, up to the first 8 letters.

(All) #633

If you have a memo with a line so long that it doesn't fit within
the memo editor window, and while in insert mode press Enter near
the top of the memo (to split the line), the program may crash.

(All) #???

Enhanced the blobfix utility to do a better job at extracting data
from a blob within a corrupted section of the file.

(All) #587

"lookup - -pw" did not honor the "-w" flag.

(All) #656

FORM command within a CALL NOAUTO'ed processing table would use
fields from the automatic table.

(Native Windows) #671

sitepwd.exe did not work under XP.

(All) #668

Output formats would not function properly if the height*width
was more than 32K.

(All) #672

"ddir -k" did not respect the lockfile.

(Native Windows) #673

p.exe splash screen would fail if the licensee's name contained
a lower-case "z".

(Sun and PPC Linux) #675

filePro would crash if TERM/PFTERM was set to an entry that
contained a "tc=" value.

(All) #674

IMPORT/EXPORT using an expression for the filename would not
compile properly in just the right circumstances. (Symptoms
included adding or deleting lines with literal strings would
make the problem go away.)

(GI) #644

Timing issues caused connections to GIserver over a satellite
link to fail.

(GI) #651

Prompt buttons were missing with browse lookup windows.

(All) #670

autoshuf would crash on some systems when adding fields.

(All) #676

dxmaint would not update the status screen while reading large
sections of deleted records within the file.

(All) #680

filepro would crash on "-pq" if a printer was defined without
any comment.

(All) #682

Dummy fields set in @ONCE did not hold their values in @BRKn
and @WGT processing.

(All) #690

In just the right combination of circumstances (full desription
to come), filePro could crash in the index delete routine.

(All) #683

System fields didn't push left with "<" on the output form.

(All) #700

If @ONCE processing makes an assignment to a dummy field that is
not defined in automatic processing, *report may crash.

(ODBC) #692

In some ODBC data sources, updating a record via high-level ODBC
would cause a nul character to be appended to the data in some
field types.

(All) #686

MESGBOX/ERROROX with long lines would drop 1 character at the end
of each wrapped line.

(All) #695

*cabe didn't recognize the new @DV system field.

(Native Windows only) #698

   EXISTS() would return "1" (true) if the specified path included
   an existing filename as part of the path. For example, if the
   file "c:/filepro/backup.zip" exists, then passing EXISTS() the
   name "c:/filepro/backup.zip/map" would return true.

(ODBC) #691

   dprodir would crash attempting to display info on an ODBC file.

(fileProGI) #688

   "MEMO ... EDIT TITLE ..." didn't display the title.

(fPSQL) #618

   fPSQL did not recognize new 4-digit-year system date fields,
   nor PFSYSYR4=ON.

(Unix xfer) #687

   The Unix version of xfer did not send screen/output formats
   that were longer than the old limit of 14 characters.

(All) #661

   BREAK OFF wasn't honored within a browse lookup.

(SCO only) #677

   If a file exceeded the ulimit file size, filePro would crash with
   a SIGXFSZ signal, rather than give the "file too large" error.

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5.0.11 Release Notes
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5.0.11 Windows versions includes the use of encrypted distribution files.
In order to install, you will need an Authentication Key file which you can
get from our download site or can request from customer service. You will
need the End-user Company Name in order to request/download this keys file

(All) #???

   In just the right circumstances, it is possible for ddefine to
   crash in the middle of a restructure when adding fields off the
   end of the record. (Special "5.0.10a" release of ddefine made.)

(All) #654

   If you execute a lookup r=free to the current file, followed by
   a lookup-dash by record number to that record, and there were
   no free records in the file, the lookup-dash will fail.

(All) #630

   menupass now accepts menu name from the command line.

(All) #620

   A protected lookup to the current file, to the current record,
   would unlock the current record, even in update mode.

(All) #647

   If the very first thing you do in dscreen is attempt to create
   a new screen, dscreen would crash.

(Windows) #649

   The initial splash screen now responds immediately to a keypress.

(All) #650

   A menu commandline that included the sequence slash-p-space (as
   in "-h 'A/P menu'") wouldn't work.

(All) #646

   Renaming a file in fpcopy might not remove the old directory.

(All) #357

   BREAK OFF did not carry through call/chain.

(All) #648

   dxmaint would not accept system fields on the command line.

(GI) #655

   pmaint printer editor did not accept F5/F6 function keys.

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5.0.10 Release Notes
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5.0.10 Windows versions includes the use of encrypted distribution files.
In order to install, you will need an Authentication Key file which you can
get from our download site or can request from customer service. You will
need the End-user Company Name in order to request/download this keys file

(All) #577

   HTML :IN :ML generated "MAXLEN=n" rather than "MAXLENGTH=n" attribute.

(5.0) #582

   The TVM_*() functions did not handle comma-type edits for input.
   (ie: "12,345.67" was treated as "12".)

(4.9) #581

   Add PFMEMOINSERTMODE=ON to set insert mode on by default in the

memo editor.

(All) #???

   Enhancement to PFTMP for specifying temp directory:

        If PFTMP is not set, then use TMP. If both are unset, use TEMP.

(All) #???

   Tweak to the above: some versions of Windows allow for a list of
   directories in the TMP/TEMP variables, separated by semicolons.
   In such instances, filePro will use the first directory listed.
   (And, change the Unix version to do the same, should there be a
   version of Unix that allows a colon-separated list of directories.)

(All) #615

   runmenu was using PFTEMP rather than PFTMP to store menu batch files.

(Quickstart) #616

   SHOW statements were truncated to 255 characters.

(All) #617

   Fuzzy browse lookups with processing caused non-global dummy fields
   to be cleared. ("Normal" browse lookups were okay.)

(All) #619

   Fix case where "node_addr(x!=y)" error would be generated.

(All) #621

   If you have an unprotected lookup to the current file, and find
   the current record, do a GETNEXT, modify that record, and CLOSE
   the lookup, the modified record will remain locked.

(All) #628

   If you have a lookup dash in @ENTSEL processing on a file with no
   automatic processing, it is possible to get DKNF errors displayed.
   (Note that the indexes aren't actually corrupted in this case.)

(All *nix) #???

   Pressing "N" or "I" in the monochrome attribute editor of dscreen
   caused the display to fill with text.

(fileProGI) #???

   Shrinking a memo in the GI memo editor caused the tail end of
   the original memo to remain.

(Some *nix) #???

   Running menu items with the "no return" flag ("#") could cause

the stty settings to get confused.

(All) #275

Using F8/Options to set the processing password in *cabe would
cause subsequent tables loaded in the same session to have the
same password assigned.

(All) #588

A "lookup - r=nn" which fails due to an EOF condition would cause
the current record to be unlocked.

(All) #601

Using block functions to copy processing lines from beyond the
last one could cause garbage to be copied.

(All) #602

fPTransfer now copies "map.new" files as a map.

(All) #604

Pressing F6 in ddir does not bring up the config editor if the
highlighted name is not a valid filePro file.

(All) #610

PFLOOKWIZPROT=ON was not recognized properly.

(All) #612

ddir did not empty the blob file on kill data / retain formats.

(All) #613

Lookup aliases in the format "letter-number-others" (ie: "d4a")
would fail syntax on assignments.

(All) #614

You can now do COntains comparisons on memo fields.

(fPSQL) #618

fPSQL did not recognize 4-digit-year date fields, nor PFSYSYR4=ON

(UnixWare only) #640

Some configurations of UnixWare do not allow a setuid program
when running as real-uid root to execute child processes.

(UnixWare only) #641

An incompatibility in UnixWare running OpenServer binaries caused
SLEEP to be ignored.

(All) #635

    dxmaint -M "" did not override PFQUAL environment setting.

(Linux only) #642

    Fuzzy searches on Linux did not return results consistent with
    other filePro systems.

(All) #637

    Extended selection sets didn't work if comparing to a value with
    a colon in it.

(All) #591

    RAND("-1") didn't properly seed the random number generator on
    some systems.

(All) #585

    PFCHECKLOCK does not report errors on "-p" lookups if you
    modify fields after a WRITE.

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5.0.09 Release Notes
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#489
    Backed out change in behavior regarding browse lookup prompts being
    displayed even if xkeys specified.

    Added "-DL" flag to *clerk to tell filePro to display the prompts,
    even if xkeys are specified.

#547
    Shrinking an existing memo/blob to zero bytes would corrupt the blob
    file. (Note that this is not the same as deleting the object.)

#214
    If you use ddir/dprodir to empty a file, and have not yet added any
    records nor rebuilt indexes, it is possible that *clerk/*report will
    still see the indexes as empty if another process has added records
    to the file while you are still in your *clerk/*report session.

    Note that the records will be correctly seen -- it is only the indexes
    that may still be thought to be empty. (The symptom is "no matches
    found" or failed lookups.)

(No task #)
    Add a new end-of-line option for printing -- backslash+LF. Mostly,
    this is for the RTF printer table, which requires the backslash at
    the end of every line for a continuation marker.

All Platforms

    New processing command "RESET @PN" to reset the page number back to 1.
    (Other "RESET xxx" commands can be added later.)

Example:

```
@wbrk2If:
     Then: reset @pn ; end
```

This will cause the page number to reset back to page 1 every time
the second break level is hit.

#566

If PFOLDIX=ON and you build a single-key index in dxmaint with a
descending sort, it erroneously built an old-style index, which do
not support descending keys.

#561

Change dxmaint to prevent building of indexes on BLOB/MEMO fields.

#501

Repeated use of F6/D/L to display long variable names in *cabe caused
corrupted list to be displayed.

#562

Add PFFIXNOLOCK=OFF to back out change related to automatically locking
future executions of a lookup which was modified without a "-p".

#536

DECLARE GLOBAL name(len,type,g) fields were not properly initialized in
quikstart.

#252

Assignment/concatenation operators ("=", "<", "{", and "&") now work
with memo fields.

```
eg:    memofield = memofield & @TD
          field = memofield
          memofield = field
```

#515

If you have an array aliased to real fields, and the only modification
to the record in output processing is "CLEAR arrayname", the record
would not be written without an explicit WRITE.

#534

LOGTEXT would log some filePro debug information into the log file,
in addition to the LOGTEXT items.

(No task #)

Add MOUSE PATH [ON|OFF] as an alias for CURSOR PATH [ON|OFF]

(No task #)

    Add PFFIXEDLISTSIZE=ON to prevent filePro from shrinking selection
    lists. This allows screen readers for the blind to be programmed
    with fixed screen locations for such lists.

#569

    CLOSE() did not return zero on success. (Return value was undetermined.)

(Windows network only) #570

    It was possible that, if one process was accessing an index for the
    first time and another was reading/writing the head of that index at
    the exact same time, the read/write process would get a Windows
    locking violation (Windows error #33).

(fileProGI) #573

    filePro will now break up queued BUTTON_OP commands into 50-command
    chunks, to prevent any buffer overruns in the fileProGI client.

(*nix only)

    When using the "+ENV+" command syntax in a user menu, it was possible
    to get an error that "exec" was not a valid command/filename.

(No task #)

    Add the ability to put "%varname%" and "$varname" in the title of
    user menus, and have them displayed at runtime.

(No task #)

    Add PFSHOWROWCOL=OFF to turn off the row/column display in programs
    like dscreen, dmoedef, and *cabe. It can confuse screen readers for
    the blind, as the numbers are read every time you press a key.

(No task #)

    Add PFINSERTMODE=ON to set insert mode in by default in *cabe/*clerk.

(Native windows, network only) #517

    Native Windows vetwork version did not respect PFDIRFILTER=ON.

#576

    If you executed a record-number lookup with "-p", and the lookup
    failed due to the record being deleted, the record was locked
    anyway.

(No task #)

    New flags for dxmaint:

        -LY/-LN   Include/Exclude index from lists.
        -KY/-KN   Save / don't save changes without rebuilding.

(fileProGI) #479

   Short selection didn't set date field types, preventing GI from
   properly displaying calendars.

(fileProGI) #522

   Under GI, only a single click of the cancel button is required,
   even if the server is Unix. However, this would cause problems
   if PUSHKEY "[BRKY]" is used. Change so that double-break is
   still needed under Unix if they are sent via PUSHKEY to make
   text and GI consistent.

#508

   When rebuilding indexes with -r/-ra, the hidden flag was lost.All Platforms

(No task #)

   Unknown solution to GI Hardcopy problem where dotted lines were
   printed in conjunction with text data lines.

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5.0.08 Release Notes
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(Native windows)
   On some Windows systems, p.exe couldn't execute "/fp/progname"
   command lines. (It would work with "\fp\progname" or just
   "progname".)

(All)
   On some systems, the following expression would generate undefined
   results:

        UncastVariable = mid(UncastVariable,start,len)

(All)
   The following code could leave the record being updated unlocked:

        @wlf1
           lookup self=filename k=1 i=a -nxp
           rn = self(@rn)
           lookup - r=rn

   (ie: a protected lookup to the current file, and then a lookup-dash
   to that record.)

(All)
   Upon returning to a user menu with "@command", garbage might appear
   on the screen before the "Press Enter to return to menu" prompt.

(All)
   Add a title to the dxmaint main menu.

(GI)
   Garbage could appear on the screen following the location for file

name input.

(GI)
  Make sure that pty device is in raw mode before sending PROCESS_INIT
  message. (Could cause lockup if PID/PPID happened to contain a 0x0A
  byte.)

(GI)
  Allow pmaint's printer configuration screen to accept mouse input.

(GI)
  If an edit definition was changed, leaving existing data that would
  fail the new edit, using the mouse to move around the screen in *clerk
  could freeze filePro as it attempted to display the "edit failed"
  message.

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5.0.07 Release Notes
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(GI) #2
  Strip out / expand backslash codes from selectlists.

(GI) #478
  When returning to user menu with "@command", leave the raw-mode screen
  rather than the filePro splash screen, when waiting for Enter.

(All) #480
  "COPY lookup1 TO lookup2" didn't force write of lookup2, unless it
  was a free-record lookup, or some other change was made to lookup2.

(GI) #481
  showbutton/brwlook problem where button goes away

(All) #489
  If exitkeys are specified on a browse lookup, filePro does not
  display filePro's browse lookup prompts. (It assumes that you
  have placed your own prompts to go with the exitkeys.) Now, if
  you specify the new "-DE" flag (suppress filePro prompts only
  at @entsel), filePro will still display the browse lookup prompts
  even with exitkeys.

(All) #490
  -DE flag browse text should not disappear

(5.0) #498
  "MEMO lookupfile[fldno] EDIT" didn't write the updated memo.

(Native windows) #499
  There is a bug in Windows' console application support that would
  cause filePro to sometimes see two spaces for a single keypress.
  This bug has been worked around.

(All *nix systems) #502
  Close security hole in makedir.

(GI, UnixWare server) #503
  Fix problem with default pseudo-tty port settings, to force a mode

that filePro can use.

(GI) #521
   Make sure that filePro doesn't display end-of-field markers under GI.

(GI) #523
   Fix problem with certain byte sequences in data stream causing the
   stream to get corrupted.

(All) #540
   REPEAT() would crash filePro ("out of memory" error) if passed a
   negative length.

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5.0.06 Release Notes
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#N/A
   xfer now includes the necessary "-m xxx" flag in the buildix
   script to rebuild qualified indexes.

#N/A
   The "PageUp/PageDown/F5" prompts are now shown in dxmaint/*report
   on the sort screen's field listing.

#39
   F9/goto in config editor will now accept line number as well as text.

#173
   If you scrolled down in the config editor while just viewing, and then
   entered update mode, you were returned to line 1.

#259
   When the number of print codes was increased to 9999, pmaint no longer
   allowed you to type "END" for F9/goto.

#264
   Add F8/Options to *cabe, to allow setting of the processing password.

#N/A
   When using F8/Save, the new prc table will have the same prc password
   as the source table.

#249
   fPcopy didn't copy blob files.

#252
   You can now do a COntains compare on memo fields.

#57
   HTML :TX can now take a memo field.

#183
   "READONLY" flag added to MEMO nnn EDIT:

         MEMO nnn EDIT [(row,col,height,width [,startrow,startcol])]
                [WRAP | NOWRAP] [READONLY]

#N/A
   When creating a new file in ddefine with BLOB or MEMO fields, the
   blob file wouldn't get created.

#279 (native windows only)
   On some systems, the text-mode mouse cursor would be enabled while
   running filePro full-screen.

#101
   Temporarily remove the F8/options box from dxmaint when building
   demand indexes, as the options don't work (yet) with them.

#83

   *cabe's F9/Goto will now find multiple occurrances of a string on the
   same line.   (And fixes the "not found" problem introduced in .05K1)

#123

   Duplicate DECLAREs are now caught in *cabe.

#140

   Browse lookups which had both "k=(expr)" and "b=(expr)" would not
   work correctly. (Internally, filePro got the "k=" and "b=" values
   backwards.)

#34 (native windows)

   When using "WIN:printername" as a destination, FORMM left the spooler
   in limbo.

#N/A
   Add PRINTER FLUSH command, which flushes any printer buffers within
   filePro.

#N/A
   New system array, @UNAME[], which returns the system uname() info:

           [1] = sysname
           [2] = nodename
           [3] = release
           [4] = version
           [5] = machine

   For Windows systems, the following values are returned:

           sysname: One of: "Win9x", "WinNT", or "Windows" (if type cannot
                   be determined)
           nodename: the value from GetComputerName()
           release: major.minor.build (for example "4.10.1998" for Win98)
           version: the szCSDVersion from GetVersionEx()
           machine: blank

   For *nix systems, see your O/S manual for details on each field's
   meaning.

#280 (native windows only)

Restructure of files in ddefine would fail at the freespace check
if PFDSK was set to more than one drive.

#268 (native windows only)

SHOW on row 25 did not display anything.

#30

Variables DECLAREd in sort/select processing were not properly
retained for the output phase in quickstart.

#269

rreport could lose some printer setup information after executing
a PRINTER FILE command. (Symptom: no end-of-line generated at
page boundaries.)

#83

After doing an F9/text-search in *cabe and finding text that's not
at the beginning of the line, using F9/goto a line number (or "END")
would not position the cursor at the beginning of the line.

#298

MESSAGE SEND would crash filePro.

#284

@PD and @PC increased to 80 characters, to match pmaint.

#301

If a CALL has been executed, then using "E"xpressions in the processing
debugger may not recognize all variable/lookup names. Only occurs if
the CALLed processing table has fewer symbols than the table being
debugged.

#297

Within automatic processing, when scrolling through a file, memo
fields would always compare to null, even if filled in with text.

(Native windows) #300

"WIN:printername" syntax caused the printer init code to be sent
with each form printed to FORMM command.

#39

Configuration editor F9/search enhanced so that you can go to a
specific line by typing its line number, and you can search for
numbers by typing a quote as the first character. (Same as *cabe's
search.)

#N/A

Add PFLOOKWIZPROT=ON to change the lookup wizard's "protect record" default to "Y".

#N/A

New STATUS object allows you to save/return the status of: break, cursor, video, escape, and background. Allows subroutines to enable or disable these items, and then restore them to their original state.

        handle = NEW STATUS()
        STATUS handle GET
        STATUS handle SET

#355 (native windows only)

Windows Me and/or 2000 appears to not beep when a ctrl-G is output from a console application. Change the native windows version to use the MessageBeep() API call instead.

#N/A (fileProGI only)

A new TITLE verb is added to the MEMO EDIT and MEMO SHOW commands, to allow a title to be specified for the window. Currently, only the fileProGI client will display the title.

Example:

        MEMO memofld EDIT (row,col) TITLE "Last updated: " < @UD

#N/A

The "-pq" list no longer interprets backslash codes, so that you can have printer comments like "Send to \\server\printer".

#N/A
Adding more than 100 lines to a memo field in the non-wrapping editor could crash filePro.

#358
PFSKIPPEDLOG=filename would crash *report.

#219 (fileProGI only)

Cursor path is now enforced within the GUI environment.
PFFORCECURSORPATH=OFF turns off forced cursor pathing logic.

#N/A (native windows only)

PFSHOWWINERROR=ON shows value of GetLastError() when system error occurs.

#N/A (native windows only)

Some system errors didn't display the correct error message text.

#N/A
PFREFRESHRATE=nnn sets the screen refresh rate during sort/select and

output phases in dxmaint/*report to once every "nnn" seconds. (default=1)

#304
> If you CHAIN from a processing table with a DECLARE GLOBAL, and then
> CHAIN back, the value of that variable was lost upon return.

#N/A (fileProGI only)
> New command "CURSOR PATH ON|OFF" to give programmer ability to turn off
> forced cursor pathing in GUI.

#404
> If you are building an index, and you have a duplicate key that spans
> several blocks, and the last block is exactly filled, and you insert a
> new key that comes between that multi-key and the next key, it was
> possible for dxmaint to crash. (Though it appears to only have crashed
> if running under fileProGI.)

#104
> Pressing F2/DELC at the end of a line in the memo editor now joins the
> lines together by deleting the end-of-line marker.

#16
> If you have a memo that is smaller than the memo editor window, and you
> start inserting blank lines with Enter in insert mode, then when the
> memo reached the height of the editor window, it would crash.

#N/A
> New *clerk flags:

-de	Turns off @entsel prompts, but leaves update mode prompts.
-du	Turns off update mode prompts, but leaves @entsel prompts.

#N/A
> New environment variable PFNEWSK=ON (default: OFF) allows new @SK
> values to be seen by processing. Specifically, the only one right now
> is "MOUS", which will be seen as "ENTR" otherwise.   (Lots of processing
> tables depend on certain values in @SK in order to function. If an
> unknown value is set, the cursor won't leave the field or will behave
> in undesired ways.)
>
> A new system field will be assigned later, which will always contain
> the "real" keystroke value.

#N/A
> Manipulating memo fields within a lookup file could crash quikstart.

#476
> In *clerk, if you press F6 on a field with no browse lookup, and the
> press BREAK when asked if you want to create one, you were taken out
> of update mode, rather than just cancel the brwlook create.

#87
> If you have an index with a duplicate key that requires more than one
> block in the index, and add a record whose key comes immediately after
> that duplicate key, and then continue adding records with the duplicate
> key, while not adding any other key between it and the first key of the
> next node in the tree, so that it no longer fits into the same block,
> the parent node's pointers were not properly updated.

This could lead to a "deleted key not found" error.

#249
   Windows version of fpcopy, when renaming a file with blobs, would
   fail to move the blob file to the new directory.

(Native windows) #499
   Native windows version would sometimes see two spaces when you pressed
   the spacebar once.

#477
   Hardcopying a screen in *clerk, when the printer destination was set
   to the screen (ie: with "-pv") would produce a blank screen.

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5.0.05 Release Notes
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(All)
   *clerk can now go to the end of a demand index via F7. (It used to
   give a "can't do bxhigh() on demand index" error.)

(Native windows)
   SYSTEM() will execute via command.com if a full path is not given
   on the command line. (This was backed out while working on letting
   fPclient run scripts, but now that we're using pipes rather than
   sockets, that fix is no longer necessary, and running via command.com
   is necessary to run any built-in commands or to respect I/O
   redirection.)

(All)
   Blob files can now be placed on drives other than PFDATA (just as
   key/data/index files can).

(All)
   Increase width of ddefine's "create screen 0"/"create default report"
   dialog box, as messages are now wider due to showbuttons.

(All)
   *cabe - immediately flush buffers after writing processing table,
   in attempt to cut down on false "truncated processing table"
   reports.

(Quikstart)
   CREAT() was not accepted as an alternative to CREATE() in rcabe.

(All)
   Add PFHELPDIR=path to set alternate help file directory. If help
   not found there, filePro will then look in $PFPROG/fp/lib as well.
   (This only affects the filePro fp/lib help files. Application
   help files are not affected.)

(All)
   Turn off expiration date. Programs will no longer expire.

(All)
   Change locking logic for new-style automatic indexes. The new
   logic will allow multiple read-only accesses to the index to

occur simultaneously. Only index-update accesses are now
single-threaded. On systems with many users doing many index
searches on the same file at the same time, the load on the
system is dramatically decreased and response time is dramatically
increased with the new logic.

(All)
If you had a duplicate label with a DECLAREd variable and a processing
line, and the prc line was empty except for the label, filePro could
get in an infinite loop attempting to display the syntax error.

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5.0.04 Release Notes
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Restructure of a file with data in it, to change between text and
memo didn't handle the qualified blob file.

While someone was in the memo editor, other people would be locked
out of accessing any memos/blobs from the same file.

(Native windows version only)
Commands built into command.com would not execute via SYSTEM
command.

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5.0.03 Release Notes
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After using "!menuname" to nest menus, returning from the nested menu,
and executing a menu command line, the wrong menu (the previously-
nested one) would be displayed.

Due to the change in 5.0.02 of re-reading the user menu, menus with
passwords started asking for the password every time you returned
from executing a command.

Changing a BLOB/MEMO field to a "regular" field in ddefine caused the
restructure to crash.

(Unix only)
dmakemenu would crash upon saving menus.

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5.0.02 Release Notes
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Using the syntax "MEMO fld EDIT ()" or "MEMO fld SHOW ()" would crash
*clerk/*report programs on some systems.

Enhance the "There are no filePro files" errorbox to include the
directory where filePro is looking.

Help screens lost the ability to show attributes in 5.0.00K5. Fixed.

Add PFHELPAUTOGOTO=ON to automatically force F9/goto upon entering help.

Fix memo/blob problem with deleting a memo and then lengthening a memo

(which happens to reside in the same block in the blob file) causing
corruption.

Adding more than 100 lines to a memo field in the wrapping editor
could crash filePro.

dxmaint F8/options screen didn't allow blank to represent "no".

Memo editor F8/options didn't have any text after "F10" in "F10 - help".

Memo editor respects "-d" flag to not display prompts.

runmenu re-reads the menu upon return, allowing the command to update
the menu and have the changes reflected on return.

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5.0.01 Release Notes
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Word wrap within memo editor. Also, the MEMO EDIT command is
enhanced to take an optional WRAP/NOWRAP flag. The default is
currently WRAP, but that may be configurable later.

   MEMO field EDIT [(row,col,height,width,startrow,startcol)] [WRAP|NOWRAP]

(Native windows version only.)
Don't turn on mouse cursor while in full-screen mode.

Typing more than 100 characters at the end of a line in the memo editor
while not in insert mode, could crash filePro upon exiting the editor.

Fix buffer-overflow problem from increased max line within help.

Fuzzy browse lookups didn't work if helped by an index, if that index
was in 4.1-style format.

Last remaining known "deleted key not found" problem fixed.
If you had a duplicate key that spanned exactly 9 blocks in the index,
and the ninth block contained exactly one record, and you deleted a
record stored in the first block, the eighth (and now final) block was
sometimes not properly marked as end-of-chain.

Fix problem with opendir/nextdir truncating filenames at a space.

Fix single-break problem in *cabe under Unix/Linux.

Fix problem in word-wrap memo editor, where deleting lines could
leave a ghost of the last line at the bottom of the window.

Fix problem in word-wrap memo editor, where pressing Enter in insert
mode would still display the old line in its entirety.

Change logic of word-wrap editor, so that whitespace will wrap to the
next line if necessary.

If typing off the end of a line, in overstrike mode, every 100th
character might not be stored properly.

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5.0.00K5 Release Notes
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Increase max line within help file from 132 to 512, to allow for
multiple backslash-coded items.

Fixed MEMO DELETE to release memory location after delete.

Memo editor now keeps track of the desired column when moving
vertically through shorter lines.

Having an extraneous comma within a DECLARE statement would cause
an erroneous syntax error at the first reference to a literal. ie:

       DECLARE variable1, variable2,
or   DECLARE variable1,, variable2

MEMO EDIT / MEMO SHOW can now leave off the (row,col,...) entirely,
and a default location/size will be used.

Fix *cabe DEL problems under Unix/Linux.

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5.0.00K4 Release Notes
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ddefine allows restructure of to and from memo/blob field types.

Deleting the last line of a memo could cause a crash upon save.

If the only changes made to a record were via MEMO EDIT, those changes
would not be saved.

Fix *cabe DEL problems under Unix/Linux.

Memo editor now requires double-break to cancel.

Memo editor - when you marked text end-to-front, cut/copy would
crash.

Memo editor didn't find text at end-of-line.

"Toggle insert" added to memo editor F8/options menu.

Repeated use of the sequence MEMO DELETE, MEMO IMPORT, MEMO EDIT
while remaining within the processing, could corrupt the blob file.

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5.0.00K3 Never Released
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5.0.00K2 Release Notes
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MEMO EDIT would crash at 101 lines or any increment beyond a per 100
line entry before the 100 line buffer established was refreshed.

Added SAVE and BRKY references to the prompts of MEMO EDIT windows

PFNOBOX=ON created a piece of box that displays in lower right quadrant
of MEMO EDIT box.

Changed MEMO EDIT Extended Functions for Find to respect the PFDLGENTER
setting

Fixed [field] copy to a lookup[field] of a MEMO field

Fixed lookup[field] CLEAR after a MEMO lookup[field] SHOW

Fixed Native saving proper CR/LF of a MEMO TEXT EXPORT after MEMO EDIT

Fixed Memo Paste Function which would not work at the End of File

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5.0.00K1 Release Notes
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New Extended Features (F8) in MEMO editing which includes

Mark, Cut, Delete, & Paste
Find & Find Next
Insert Current Date
Insert Current Time

Environment Variable for *NIX platforms to set the Graphics
character for PFSHOWF6ARROW is now GY

fPTransfer has been update to handle blobs as binary files.

Many cosmetic and messaging enhancements

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5.0.00 Release Notes
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Commands for MEMO management

To Display a text MEMO field with allowing edit

MEMO field SHOW (row,col,height,width)

To Remove a text MEMO field display-only window

MEMO field CLEAR

PFLOOKUPNOFILE=ON

In *cabe, if you define a lookup to a file that does not yet exist, and
this is set, you will no longer get a "No or invalid map" error.
Default is OFF.

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Spooling for Native Windows filePro

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Windows apparently doesn't spool print jobs sent by native windows console
applications to local printer ports, the way that it does for MS-DOS programs
that do the same thing. (That is, open "lpt1" as a file and write to it.)

We have added the necessary code to the native windows version of filePro
to use the Windows printer routines (ie: OpenPrinter, StartDocPrinter, etc.)
which do respect the Windows spooler. However, the spooler is also limited
to those printers defined in the printer control panel. Therefore, we have
made it a requirement that, in order to use the Windows spooler, you must
prefix the filePro destination with "win:", as in "win:lpt1:".   The rest
of the destination must be the exact port name or printer name as you have
defined it to Windows.   So, if you have a printer attached to LPT1 that is
named "HP DeskJet 870Cse", you would use either:

        win:lpt1:
or   win:HP DeskJet 870Cse

If you have a network printer "\\server\printer" that is captured to LPT2,
called "Bob's printer", and the Windows destination is "\\server\printer"
then you would use either:

        win:\\server\printer
or   win:Bob's printer

You could not use "win:lpt2:" as "lpt2" is not the destination that Windows
knows the printer by. (Though you could use "lpt2" without the "win:" and
go directly to that port without the spooler.)

Remember: You can only use the exact port name or printer name that Windows
uses. Anything else will result in a "the parameter is incorrect" error when
filePro tries to open the printer.
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