Le 2 juin 1996 à 23:38.

SqTool

(c) Raphaël Vanney

The table of contents is at the end of the file.

There is also an index down there.

<TOPOFPAGE>

----
1   Preliminary stuff

  1.1   Legal-like stuff

        I take no responsibility from whatever results from your use of
        SqTool. If you are not prepared to handle the consequences,
        please don't use SqTool.

        SqTool, SqFilter and other terms are unregistered givemarks of
        Raphaël Vanney, Exc.

  1.2   What's SqTool ?

        SqTool is meant to be a general-purpose utility for those of us
        who use Fidonet-style message bases. As of now, Squish and
        *.MSG bases are supported. If you run a BBS that uses Files.BBS
        files, SqTool can also provide file-oriented functions.

        Here are a couple things you can do with SqTool :

        . Filter messages to you, and copy them to a specified message
          area ;

        . Filter messages of interest, based on a keyword search, and
          copy them to a specified area ;

        . Remove messages you don't want on your system (for instance,
          messages which contain adult content on a children-dedicated
          BBS), or move them to a specified area ;

        . Select messages on their content, and generate automatic
          replies from a disk file ;

        . Trigger execution of external commands based on message
          content (ie when a specific subject is found, run a .CMD or
          .EXE file and return its output to the message sender) ;

        . Set up a mail-based file-request system ;

        . Automatically announce new files on your system ;

        . Automatically answer filefind requests ;

        . Build a listing of all files on your BBS ;

        . Import and export SOUP packets ;

        . etc...

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1.3   SqTool & SqFilter

To those of you who used SqFilter : the source of SqFilter has
been lost in a disk crash (always back up, they say...) Since I
wanted to add features to SqFilter, I started rewriting it, et
voilà, it's now called SqTool.

Some of the features of SqFilter have been left out from
SqTool. If you need some of them, or if you have a problem
using SqTool replacement functions, please drop me a note (see
"Support").

On the other hand, SqTool is now a 32-bit application (this
does not mean a lot, except that it knows no memory constraints
and runs a bit faster than SqFilter), and, tada!, it handles
HPFS file names.

You will also note that the filters capabilities have been
enhanced, in ways I quite like.

SqFilter configuration files won't directly plug into SqTool,
but the areas and message filters definitions should not
require too much work.

1.4   Support

SqTool is freeware, so don't expect professional-level, 24-hour
support. Anyways, I usually answer requests for help and
welcome enhancement requests. Of course, general comments or
congratulations are welcome as well.

Please feel free to drop me a note at one of the following
addresses :

. Internet   rvanney@ibm.net

. Fidonet   2:320/222.7

. Francomedia   101:173/209.7

Thanks to those who already did.

Those of you who are willing to translate SqTool messages to
another language are welcome (SqTool is designed to easily
support other languages).

I usually upload new versions of SqTool to the Hobbes ftp site
(hobbes.nmsu.edu).

I have a robot that answers messages sent to "SqTool@ibm.net";
try it with "Info" in the subject.

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    1.5   Credits

        Thanks to David Ahia and Roland Gifford, who both tried to run
        early versions of SqTool despite its numerous bugs, and
        provided a number of enhancement suggestions. Others will
        forgive me for not naming them here, I prefer not to make this
        doc an address book.

        The German documentation and message files are the result of
        Mike Wolfram's work.

        This documentation was typed in Microsoft Word 5.5, which is
        probably one of its (Microsoft's) last OS/2 applications.

        SqTool is   written   in   SpeedPascal,   and   compiled   using
        SpeedPascal/2 version 1.5 beta IV.

<TOPOFPAGE>

```
    ----------------------------------------------------------------
    2        Configuring SqTool
    ----------------------------------------------------------------
```

SqTool operation is based on a configuration file, which contains several main parts :

. Miscellaneous : various configuration options

. Areas configuration : where you tell SqTool where and what your message and file areas are.

. Filters configuration : where you tell SqTool what filters to apply.

. FileFind configuration : if you want SqTool to act as an AllFix filefind request processor, you must provide SqTool some extra information.

. SOUP configuration : if you want SqTool to import/export SOUP packets, you must provide a few details.

The configuration file is named SqTool.Cfg, and must be stored in the same directory that holds the executable file (SqTool.Exe).

This is a text file, which can be created and edited with any text editor. Empty lines and lines beginning with a ";" sign are ignored (use a ";" to insert a comment in the file).

2.1   Miscellaneous
```
    ----------------------------------------------------------------
```

AreasWrittenTo <filename>

The AreasWrittenTo keyword lets you define a file where SqTool will put a list of all the message areas where it wrote a message. The typical use for this is to have a message tosser process these areas after SqTool has done its job.

If the file already exists, SqTool appends data to it rather than overwriting it.

Example :

        AreasWrittenTo c:\BBS\EchoToss.Log

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        Debug

         Tells SqTool to generate much more verbose information in the
         log file. If you've got a misbehaviour (aka bug) to report, the
         debug log file often helps solve the problem.

        Deutsch

         Tells SqTool to use German messages (default when country code
         is 37, 49 or 43).

        English

         Tells SqTool to use English messages (default when country code
         as specified in CONFIG.SYS is 1 (U.S.) or 44 (U.K.)).

        FidoUserNo <no>

         FidoUserNo tells SqTool which user number to use to store
         lastread information for Fido *.MSG message bases. See comments
         for "SquishUserNo".

        ForwardHdr

         Defines the text that will be put in front of forwarded
         messages (see the "Forward" action of message filters). The
         text is terminated with an "EndTxt" keyword.

         Example :

            ForwardHdr
                "Message forwarded from {OrgArea}"
                "Originally from {OrgFrom}, to {OrgTo}
                "--"
            EndTxt

        Francais

         Tells SqTool to use French messages (default when country code
         as specified in CONFIG.SYS is 33 or unknown).

        Include <filename>

         The Include   keyword lets you include files in   your
         configuration file. This might be handy if you use several
         configuration files and don't want to duplicate common

information such as areas definition. You would then move the

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        areas definition to another file and 'Include' this file in
        your main configuration files. The Include keyword may appear
        anywhere in the configuration file, except within a template
        text and filter definitions (where it would be considered as
        part of the text/filter). Nested include files are allowed,
        without any reachable limit.

    InternetAddress <address>

        Lets you define your Internet address. It will be used when
        SqTool writes messages to Internet-type areas or export SOUP
        messages which lack a From field.

    LockTimeOut <delay>

        Sets the maximum time SqTool will try to lock a message base.
        If a message base is kept locked by another process during more
        than this delay, SqTool will fail to lock it and halt with an
        error message. The delay is specified in thousands of a second.
        The default value is 10000 (ten seconds).

    Example :

            LockTimeOut 60000

        Will try to lock a message base for up to one minute.

    LogSizeLimit <bytes>

        Defines the maximum size of the log file : it's such a PITA to
        have to shrink these log files periodically. SqTool will make
        sure that the log file does not grow over this size by removing
        older statements. Don't be surprised if one day the first line
        of your log file looks strange, SqTool does not check where it
        cuts the log file.

        The default value is 256kb. It can be set to anything between 1
        and 2^31 bytes.

        Warning : the log file shrinking is quite a straight process :
        the program just moves the last LogSizeLimit bytes of the file
        to the beginning of the file, then truncates the file. This may
        be a lengthy process if your log file is 10Mb in size !

        Though you can't disable this feature, setting this value high
        enough will prevent SqTool from shrinking the log file.

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MainAddress <address>

Defines your main fidonet-like address, or aka. This address
will be used when writing to message areas where no specific
aka has been specified.

MaxAnnPerMsg <number>

Tells SqTool how many files, at most, may be announced in a
single file announcement message (this relates to "Action
Announce" in file filters). If more new files are to be
announced, they will be separated over several messages. The
default value is 100,000.

ReScan

Tells SqTool to ignore the lastread information and entirely
rescan all message areas.

SquishUserNo <no>

SquishUserNo tells SqTool which lastread record it should use
in the Squish *.SQL files. You should make sure that, if your
reader uses this feature, it is set to use a different user no.
The same applies if you run a BBS that uses the lastread
information stored in Squish files.

The default value for SquishUserNo is 0. You may use anything
between 0 and 64k.

UpperCaseFNames

If this keyword is specified, file names written by file
filters will be uppercased. The default is to write file names
exactly as they appear in the FILES.BBS file.

  2.2   Areas configuration

Areas may be defined either "manually" or using existing, other
software's configuration files.

 2.2.1 Manual message areas configuration

Manual message areas definition uses the same syntax as GoldEd,
the mail reader I use.

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Area <tag> "<description>" <base type><msg type> <base init str> <attr>[<atr>...]

where :

<tag>   short name for the message area ; this is the
                name you will use when referring to this area
                in SqTool configuration.

<description>   is an optional text describing the content of
                the area.

<base type>   may be either "M" (without the quotes) for
                Squish areas, or "F" for *.MSG areas.

<msg type>   May be "E" (without the quotes) for Echomail,
                "N"for NetMail, "L"for local areas. Defaults to
                Echomail.

                Note that there is no space between <base type>
                and <msg type>.

<base init str> For Squish bases, path and file name without
                extension. For *.MSG bases, directory where the
                messages are stored.

<attr>   Default attributes of messages entered in this
                area. May be none, one or several of :

. ARQ   :

. ATT   : a file is attached

. CFM   :

. CRA   : crash mail

. FRQ   : file request

. HLD   : hold message

. LOC   : local (always set)

. PVT   : private message

. SNT   : sent

. URQ   :

Example :

    Area OS2 "OS/2 main echo" ME e:\Msgs\OS2

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AreaDef <tag> "<description>" <group> <msg type> <base type>
<base init str> <aka> (<attr>) ["<origin>"]

AreaDef has the same purpose than the Area keyword, but allows
a more detailed configuration :

<tag>   See the "Area" keyword.

<description> See the "Area" keyword.

<group>   Unused by SqTool (but must be present ; I
                 suggest you use "*" (without the quotes)).

<msg type>   May be either "Net" (without the quotes) for
                 NetMail messages, "Echo" for echomail messages,
                 "Local" for local mail messages or "News" for
                 newsgroups.

<base type>   May be either "Squish" (without the quotes) for
                 Squish message bases, or "FTS1" for *.MSG
                 bases.

<base init str> See the "Area" keyword.

<aka>   Fidonet-style address (aka) to use when posting
                 messages to this area. Use "." (a dot, without
                 the quotes) to use your main address.

<attr>   See the "Area" keyword. Note that the brackets
                 must be there even if no attribute is
                 specified.

<origin>   Optional origin-line to use when writing
                 messages in this area.

Examples :

    AreaDef comp.os.os2.setup "UseNet : comp.os.os2.setup" *
    Echo Squish e:\Msgs\comp.os.os2.setup 999:320/222.7 ()

    AreaDef MsgsToMe "Messages to or about me" * Echo Squish
    e:\Msgs\MsgsToMe 2:320/222.7 ()

    AreaDef NetMail "NetMail" * Net Fido e:\Msgs\NetMail
    2:320/222.7 (Pvt)

(Note that the definition should NOT be split over several
lines).

2.2.2 Automatic areas configuration

SqTool can use several other-software configuration files to gather information relative to your areas.

<TOPOFPAGE>

LoraPath <path>

Tells SqTool where LoraBBS is installed. SqTool will use the files CONFIG.DAT, SYSMSG.DAT and SYSFILE.DAT in this directory to configure the message and file areas.

See 4.2.3 for more details about Lora configuration files.

AreasBBS <file name>

Tells SqTool the name of a standard AREAS.BBS file where to find the message areas definition. Only Squish and *.MSG areas should be defined in this file.

SquishCfg <file name>

Tells SqTool the name of a Squish.Cfg file where to find the message areas definition. See 4.2.1 for more details about Squish.Cfg processing.

2.2.3 Manual file areas configuration

Manual file areas configuration is done using the FileArea keyword.

FileArea <tag> "<description>" <list name> <files path>

<tag>   short name for the file area ; this is the name you will use when referring to this area in SqTool configuration.

<description>   an optional description of the file area.

<list name>   the name of the file that contains the list of the files in the area. This file must comply to the Files.BBS format (see "Technical, gory details").

<files path>   the path where the files may be found.

Example :

        FileArea OS2Drv "OS/2 Drivers"
        e:\Lora\Files\OS2Drv\Files.BBS e:\Lora\Files\OS2Drv

(Note that the definition should NOT be split over several
lines).

<TOPOFPAGE>

    2.3   Message filters configuration

        The way SqTool process filters is, hopefully, apparent in the
        way a filter is defined :

        . SqTool scans the specified message base(s) ;

        . Each message in the base(s) is compared against the
          "triggering" criteria ;

          If the message matches the criteria (triggers the filter),
          the specified action is performed, and/or the specified reply
          is sent.

        A filter definition is made up of the following parts :

    2.3.1. Filter header

       BeginFilter ["<description>"]

        BeginFilter starts the definition of a new filter.

        <description>   is an optional description of the filter (this
                         will help you identify the filter in the log
                         file).

    2.3.2 Definition of the areas to scan

        The following keywords define which areas should be scanned
        when processing this filter. You may use as many Scan and
        Unscan keywords as necessary.

       Scan <area_mask>

        <area_mask>   is either the name (tag) of a previously
                         defined message area or a group of areas,
                         specified using the "*" wildcard. The "*"
                         character may appear before or after the root
                         name, but not in the middle of it.

        Examples :

        Valid :

```
        Scan os.os2.*

        Scan *.fr

        Scan *.os2.*
```

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```
        Scan os2.fr
```

    Invalid :

```
        Scan rec.*.fr
```


    UnScan <area_mask>

    Tells SqTool NOT to   scan the specified area(s), which
    supposedly have been previously selected by the "Scan" keyword.

    <area_mask>   See the "Scan" keyword.

    Example :

```
        Scan comp.os.os2.*
        UnScan comp.os.os2.misc
```

    will scan   all areas   which's name   (tag)   starts   with
    "comp.os.os2.", except the comp.os.os2.misc area.

  2.3.3 Trigger

    The following keywords define what conditions trigger the
    filter.

    A filter may use several "Include" and "Exclude" keywords,
    which will be processed in the same order they appear in the
    configuration file.

    Include|Exclude [<operators>] "<ref_string>"

    Include   trigger the filter if the message matches the
                     condition that follows.

    Exclude   un-trigger the filter if the message matches
                     the condition that follows.

    <operators>   are zero, one or several from :

    . Not negate the result of the search.

    . Exact perform an exact compare, rather than searching the

reference string within the specified field(s).

. Case   : case-sensitive search.

. From   : search within the From field.

. To   : search within the To field.

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. Subject   : search within the Subject field.

. Header   : search within the From, To and Subject
  fields.

. Kludges   : search within the kludge lines.

. Message   : search within the message text.

. All   : search within all the message fields, except
  kludges and addresses (this is the default).

. Origin   : compare to the originating address (Exact
  implicit).

. Dest   : compare to the destination address (Exact
  implicit).

. QuotePct   : check the percentage of quoted lines in the
  message against a specified range. There are three ways of
  specifying the range : ">n" (percentage must be greater than
  n), "<n" or "n-m" (percentage must be comprised between n and
  m). Blank lines, kludge lines, SEEN-BY, PATH, origin and tear
  lines are ignored.

. And   : the result of this search will be and'ed with
  the current trigger status. Not allowed in Exclude lines.

. XOr   : the result of this search will be xor'ed with
  the current trigger status. Not allowed in Exclude lines.

. Or   : the result of this search will be or'ed with
  the current trigger status (default).

<ref_string>   is the string that is to be searched in the
                   message, or the quote percentage range. If the
                   keyword "Origin" or "Dest" is used, this string
                   should represent a valid FidoNet type address,
                   where one or several of the fields may be
                   replaced with a "*" to accept any value for
                   this field.

Examples :

```
        Include To Subject Message "Vanney"
        Exclude From "Vanney"
```

The filter will be triggered if either the To field, the
Subject field or the message text contain the string "Vanney",
case-insensitively, except if the From field also contains this
string.

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```
        Include To Exact "Log Robot"
        Exclude Not Subject Exact "mypassword"
```

The filter will be triggered if the To field is exactly (but
case-insensitively) "Log Robot", and if the subject is equal to
"mypassword". The same could be expressed as :

```
        Include To Exact "Log Robot"
        Include And Subject Exact "mypassword"
```

```
        Include   Origin "2:320/222.*"
```

Triggers the filter for any message coming from 2:320/222 and
its points.

```
        Exclude QuotePct ">80"
```

Prevents messages with more than 80% of quoted text from
triggering the filter.

2.3.4 Action

This keyword defines the action the filter should take when a
message that matches the triggering conditions is encountered.


```
    Action  <action> [params]
```

    <action>   may be one of the following :

    Delete   deletes the message.

    CopyTo <area_name> [Public]

                     copies the message to the specified message
                     area. If "Public" is specified, the PVT
                     (private) attribute of the target message is
                     cleared.

    MoveTo <area_name> [Public]

moves the message to the specified message
                              area. If   "Public" is   specified, the PVT
                              (private) attribute of the target message is
                              cleared.

          ForwardTo <area_name> [From "<author>"]

                              forwards the message to the specified message
                              area. You may optionally specify a string

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                              (<author>) that will be put in the "From" field
                              of the forwarded message.

          Ack   (function not implemented yet)

          Execute "<command>"   shells   to   OS/2   and   executes   the
                              <command>. See 4.4 for details.

      AllFix <result_file>

       Handles the message as a FileFind request, placing the result
       in the <result_file> file. See "FileFind configuration" for
       more details.

       AllFixMore <result_file>

       Handles the message as a FileFind second request, placing the
       result in the <result_file> file. See "FileFind configuration"
       for more details.

   2.3.5. Reply

       The following keywords define the reply SqTool should make to
       the original message, after having performed the action. This
       is optional.

       ReplyWith <options> "<file_name>"

       Send the content of <file_name> as a reply to the message. If
       the file does not exist, no reply is sent.

       <option>   is zero, one or several from :

       . uue   : send the file uuencoded. Use this option to
         send binary files (binary files can't be sent as-is over
         mail ; UUE will convert them to a suitable text format. The
         receiver will need an uu-decoder to decode the file).

       . EAs   : this option tells SqTool that the extended

attributes of the file should be sent as well ; it is only
meaningful when the "uue" option is used.

. DelPrev   : delete the file (if it exists!) before
performing the action defined with the "Action" keyword. It
is important to use the DelPrev option when the action is
AllFix : if you don't, users that should not get an answer
(no file found) will receive the answer to the previous
successful request.

. DelAfter   : delete the file after sending the reply.

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ReplyArea <area_name>

 Send the reply in the specified message area (the default is to
 send the reply in the area where the message came from).

ReplyAttr <attributes>

 Set the specified attributes to the reply message (by default,
 only the LOC attribute is set). See the "Area" keyword for a
 list of valid attributes.

RepFooter

 Defines a text that will be inserted in the reply after the
 content of the file specified with ReplyWith. The text must end
 with a line containing the string "EndTxt" (without the
 quotes).

 When used in a filter which's action is AllFix, these header
 and footer are additive to those defined with AfxFoundHdr and
 AfxFoundFtr.

ReplyFrom "<string>"

 SqTool will use <string> as the From field of reply messages
 for this filter.

RepHeader

 Defines a text that will be inserted in the reply before the
 content of the file specified with ReplyWith. The text must end
 with a line containing the string "EndTxt" (without the
 quotes).

2.3.6 EndFilter

```
EndFilter

   Terminates the definition of a filter.
```

<TOPOFPAGE>

2.3.7   Examples of filters

```
BeginFilter "Messages about/to me"
    Scan comp.os.os2.*

    Include    To Subject Message "Vanney"
    Exclude    From "Vanney"

    Action     CopyTo MsgsToMe
EndFilter

BeginFilter "Messages requesting the log file"
    Scan NetMail

    Include    To Exact "Log Robot"
    Exclude    Not Subject Exact "mypassword"

    ReplyWith "e:\Lora\Logs\Lora.Log"
EndFilter

BeginFilter "Offending messages"
    Scan comp.os.os2.*

    Include    Message "Windows"

    Action     Delete
EndFilter

BeginFilter "Externally handled messages"
    Scan       robot.requests

    Include    To "SqTool robot 2:320/222.7"
    Exclude    Subject "help"

    Action     Execute "e:\Stuff.Cmd"

  ; The reply is not generated if the file
  ; e:\Temp\Result.Txt does not exist. It is up to
  ; Stuff.Cmd to delete it if no reply should be
  ; made.
```

```
        ReplyWith "e:\Temp\Result.Txt"

        ReplyArea NetMail
; set the Crash and Private attributes to keep
; the answer confidential
        ReplyAttr CRA PRV
EndFilter
```

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```
        BeginFilter "Automatically reply to help requests"
            Scan        robot.requests

            Include    To Exact "SqTool robot 2:320/222.7"
            Include    And Subject "help"

            ReplyWith "e:\PreparedMessages\RobotHelp.Txt"
EndFilter

        BeginFilter "Let's get funny"
            Scan        alt.binaries.pictures.for.teenagers

            Include    From "aol.com"
            Include    And Message "me too"

            ReplyWith e:\PreparedMsgs\StopSendingMeToos.Txt
EndFilter

        BeginFilter "Automatic UU-decode"
             Scan alt.binaries.*
             Include Message "begin"
             Action Execute "d: & cd \Temp & uudecode %MsgBody%"
EndFilter
```

<TOPOFPAGE>

     2.4   File filters configuration

          The way file filters operate is somehow different from the
          message filters :

          - SqTool scans the specified file areas, and build a list of
            selected files ;

          - The specified action is then applied to the list of files
            that was built.

          A file filter definition is made up of the following parts :

     2.4.1. Filter header

       BeginFileFilter ["<description>"]

       BeginFileFilter starts the definition of a new file filter.

         <description>   is an optional description of the filter (this
                          will help you identify the filter in the log
                          file).

     2.4.2 Definition of the areas to scan

       The following keywords define which file areas should be
       scanned when processing this filter. You may use as many Scan
       and Unscan keywords as necessary.

       Scan <area_mask>

         <area_mask>   is either the name (tag) of a previously
                          defined file area or a group of areas,
                          specified using the "*" wildcard. The same
                          rules as defined when Scan is used in message

filters apply.

UnScan <area_mask>

Tells SqTool NOT to scan the specified area(s), which suposedly have been previously selected by the "Scan" keyword.

<area_mask>   See the "Scan" keyword.

Example :

    Scan OS2*

    UnScan OS2Tools

<TOPOFPAGE>

will scan all file areas which's name (tag) starts with "OS2", except the OS2Tools file area.

2.4.3 Select

The following keyword define which files qualify for this filter.

Select All|New

New   only new files will be processed.

All   all the files will be processed.

SqTool considers file areas much like message areas. This means that, for SqTool, a "new" file is any file that has not been previously scanned. Thus, the first time you run SqTool to process a file filter, ALL files will be considered new, and processed as such.

Example :

    Select New

Will select all the new files for processing by this filter.

2.4.4 Action

This keyword defines the action the filter should perform on the selected files.

Action <action> <params>

<action>   may be one of the following :

List   will create a list of all the selected files
                into a text file. In this case, <param> is the
                name of the file where the list will be
                written.

Announce   will create a message set containing the list
                of the selected files. <param> is the name of a
                message area where the message will be sent.
                If no file is selected, the filter does nothing
                (ie SqTool does not make empty messages when
                there is nothing to announce).

  2.4.5. Presentation

    The following keywords define the presentation of the message
    or the file SqTool will generate.

<TOPOFPAGE>

        Header

    Following the Header keyword is a text that will be inserted on
    top of the file listing. The text ends with the keyword
    "EndTxt" alone in a line.

    Example :

        Header
        Here is the list of the new files on Zlika :

        EndTxt

    Here is another way to get the same result :

        Header
            "Here is the list of the new files on Zlika :"

        EndTxt

        Footer

    Following the Footer keyword is a text that will be inserted at
    the bottom of the file listing. The text ends with the keyword
    "EndTxt" alone in a line.

    Example :

        Footer

        These files may be freely downloaded from Zlika.

        --- SqTool
        EndTxt

or

            Footer

                "These files may be freely downloaded from Zlika."

                "--- SqTool"
            EndTxt

        From "<sender>"

        Defines the string that will be put in the From field of
        announcement messages. This keyword is useless when the Action
        is not Announce.

<TOPOFPAGE>

        To "<recipient>"

        Defines the string that will be put in the To field of
        announcement messages. This keyword is useless when the Action
        is not Announce.

        Subject "<subject>"

        Defines the string that will be put in the Subject field of
        announcement messages. This keyword is useless when the Action
        is not Announce.

    2.4.6 EndFilter

        EndFilter

        Terminates the definition of a filter.

    2.4.7 Examples of filters

            BeginFileFilter "Announce new files"
                Scan *
                UnScan UserUploads

                Select New

                Action Announce NewFiles

                Header
                    "Here is a list of new files on the BBS :"

                EndTxt

```
        Footer

            "All these files are available for download."
        EndTxt

        Subject "New files on Zlika!"
        From "SqTool"
        To "All users"
    EndFilter
```

This filter will announce all new files in the defined file
areas, except those in the file area "UserUploads", to the
NewFiles message area.

<TOPOFPAGE>

```
        BeginFileFilter "Make a listing of all files"
            Scan *
            UnScan UserUploads

            Select All

            Action List e:\Lora\Files\AllFiles.Lst

            Header
                "List of all the files available on Zlika."

            EndTxt

            Footer

                "                            -+-"

                "All these files may be freely downloaded."

                "Zlika is open from 10am to 6pm, on weekdays."
                "Phone number : +33-1-47748723"

                "                            -+-"

                "This file listing was built by SqTool."
            EndTxt
        EndFilter
```

This filter will build a listing of all the files on the system
in the file "e:\Lora\Files\AllFiles.Lst".

```
        BeginFileFilter "User uploads"
            Scan UserUploads
```

Select New

                   Action Announce SysAdmin

                   Subject "Files recently updated by the users"
             EndFilter

        This filter will announce all the new files in the UserUploads
        file area with a message in the SysAdmin message area.

   2.5   FileFind configuration

        The following configuration options are necessary when using
        the "Action AllFix" and "Action AllFixMore" options in message
        filters.

<TOPOFPAGE>

     2.5.1 File areas to scan

        AfxScan <area_mask>

        AfxScan tells SqTool which file areas should be scanned in
        search for files when answering to an AllFix filefind request.

         <area_mask>   is either the name (tag) of a previously
                           defined file area or a group of areas,
                           specified using the "*" wildcard. The "*"
                           character may appear before or after the root
                           name, but not in the middle of it.

        AfxUnScan <area_mask>

        Tells SqTool   which file areas NOT to scan among those
        previously selected with AfxScan.

        You may use as many AfxScan and AfxUnscan keywords as needed.

     2.5.2 Answer setup

        The following keywords configure the answer message that will
        be sent if SqTool finds files in response to a filefind
        request.

        AfxFoundHdr

        This keyword is followed by a text that will be inserted on top
        of the answer message. The text is terminated by the keyword

"EndTxt".

Example :

    AfxFoundHdr
    The following {AfxFilesFound} file(s) were found on Zlika:

    EndTxt

AfxFoundFtr

This keyword is followed by a text that will be inserted at the
bottom of the answer message. The text is terminated by the
keyword "EndTxt".

Example :

<TOPOFPAGE>

        AfxFoundFtr

            "> Zlika BBS, an OS/2-oriented BBS"

            "SysOp   : Raphaël Vanney"
            "Phone   : +33-1-47748723"
            "Open hours : 10h00 - 19h00"

        EndTxt

AfxMaxAnswers <number>

 Defines the maximum number of files that will be listed in an
 answer to a filefind request. The default is 20.

AfxMaxDescLines <number>

 Defines the maximum description lines per file. The default is
 10.

AfxMoreToCome

 This keyword is followed by a text that will be added to the
 answer message if more than AfxMaxAnswers files have been
 found. The text is terminated by the keyword "EndTxt".

Example :

    AfxMoreToCome

```
            "More than 20 files match your request. To receive a"
            "list of the remaining files, reply to this message"
            "with an empty message (your message should be sent"
            "to "SqTool 2:320/222.7", the subject being unchanged)"
        EndTxt
```

2.5.3 Example of FileFind setup

```
        ; define file areas where to search files

        AfxScan OS2*
        AfxScan DOS*
        AfxScan Divers

        ; define answer message header

        AfxFoundHdr
        The following {AfxFilesFound} file(s) were found on Zlika:

        EndTxt
```

<TOPOFPAGE>

```
        ; define answer message footer

        AfxFoundFtr

        > Zlika BBS, an OS/2-oriented BBS

        SysOp            : Raphaël Vanney
        Phone            : +33-1-47748723
        Open hours       : 10h00 - 19h00

        EndTxt

        ; define filter for first requests

        BeginFilter "Process FileFind requests"
            Scan       wanted.fr

            Include    To Exact "AllFix"
            Include    To Exact "SqTool"
            Include    To Exact "SqFltr"

            Action     AllFix e:\Temp\AllFix.Res

            ReplyWith DelPrev DelAfter e:\Temp\AllFix.Res
        EndFilter

        ; define filter for requests for more files

        BeginFilter "Process FileFind second requests"
            Scan       wanted.fr
```

```
            Include    To Exact "AllFix 2:320/222.7"
            Include    To Exact "SqTool 2:320/222.7"
            Include    To Exact "SqFltr 2:320/222.7"

            Action     AllFixMore e:\Temp\AllFix.Res

            ReplyWith DelPrev DelAfter e:\Temp\AllFix.Res
         EndFilter
```

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2.6   The SOUP interface

The   SOUP   (Simple   Offling   Usenet   Packet)   format   is   an
increasingly popular format used for offline newsgroups and
mail reading.

SqTool can import and export SOUP packets to and from your
Fidonet message bases.

SoupEMail <area>

Tells SqTool in which message area it should put SOUP e-mail
packets.

SoupExportPath <path>

Tells SqTool in which directory it should place the files
exported for SOUP. If this variable is not defined, SqTool does
not perform SOUP export.

    IMPORTANT : if you are already using a SOUP scanner and
    plan to replace it with SqTool, please note that it is not
    impossible that your current scanner and SqTool use a
    different method for tagging messages that have been
    scanned. If this is the case, SqTool will export _all_
    messages from you the _first_ time it exports your SOUP
    newsgroups. You should then delete the files "Replies",

"SqTNews.Msg" and "SqTMail.Msg" in your SoupExportPath
directory.
Other SOUP scanners also frequently use fake gateway
addresses for importing/exporting SOUP packets. All
references to these fake addresses must be removed or
Squish will continue to export messages for the old gateway
address.

     SoupImportPath <path>

     Tells SqTool where to look for a SOUP packet to be imported. If
     this variable is not defined, the SOUP import function is
     disabled.

     SoupNewsrcFile <file_name>

     Tells SqTool the name of your newsrc file. This file should
     contain the list of newsgroups you are connected to. SqTool
     uses it to know which message bases it should scan when
     exporting SOUP packets.

<TOPOFPAGE>

---
3   Running SqTool

     Installing SqTool is pretty straightforward : just copy the
     files in the archive to a directory. The following files are
     needed to run SqTool : SqTool.Exe, KBDVIO32.DLL and
     SqToolFr.Msg (French messages) or SqToolEn.Msg (English
     messages).

     Before running SqTool, you must create a suitable SqTool.Cfg
     configuration file. If you're not sure what a SqTool.Cfg file
     should look like, please take a look at the included SqTool.1st
     file, and build your own file after it, with the help of this
     documentation.

     The first time you run SqTool, you might want to use the "-
     InitPtr" command-line option. This will pre-set pointers so
     that SqTool does not scan all your messages and files bases.

     SqTool should be run periodically, for instance once a day, or
     each time you insert messages in your message bases (after a
     poll to your uplink).

   3.1   Command-line options

     SqTool recognizes the following command line parameters :

-Debug

 Activates the debug mode. SqTool will generate a much more
 verbose log file.

-ReScan

 Tells SqTool to rescan all MESSAGE areas, ignoring lastread
 information.

-InitPtr

 Runs SqTool in a special mode, in which it will not proceed the
 filters but initialize the lastread information for all areas.
 This option should only be used once, the first time you run
 SqTool, so that it does not process all your messages and files
 (consider them as "new", or "unscanned") the first time it
 processes filters. It's pretty much the opposite of the "-
 ReScan" option.

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-Idle

 Runs SqTool at a low priority level.

-Log=<log_file_name>

 Tells SqTool to use <log_file_name> as a log file, instead of
 the default SqTool.Log.

-NoFileFlt

 Tells SqTool not to process file filters. Ignored when "-
 InitPtr" is used at the same time.

-NoMsgFlt

 Tells SqTool not to process message filters. Ignored when "-
 InitPtr" is used at the same time.

-NoSOUPIn

 Don't import SOUP packets.

-NoSOUPOut

         Don't export SOUP packets.

   3.2   Troubleshooting

     3.2.1 Run-Time Error 216

            This is a serious error, which means SqTool has encountered a
            situation I had not planned.

            Though there are potentially many reasons for this error, I
            have spotted one on my system : using the TRIOS2.ADD driver
            (replacement for IBM1S506.ADD for TRITON-chipset motherboards)
            causes seemingly random Run-Time Error 216, which do not appear
            when using the stock IBM1S506.ADD. If you encounter such an
            error and are using a replacement IDE disk driver, please try
            replacing it with IBM1S506.ADD before reporting the error to
            me.

     3.2.2 Error codes

            Under certain circumstances, most often due to a problem
            accessing a file, SqTool may stop with a message indicating an

                  _____
                                     page 30
                  _____

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            error number. Here's a list of error numbers and their
            meaning :

              OS/2 error codes

            15   An invalid drive was specified. Check the path
                             of the file you try to use.

            32   Sharing violation. The file SqTool tried to
                             gain exclusive access to is already locked by
                             another process. Stop that process, or retry
                             later.

            110   A file was not found. This error may happen if
                             the files needed by SqTool (*.Msg, *.Cfg) are
                             not in the current directory.

              SqTool error codes

            1000   You should never encounter this error ; it
                             means SqTool has attempted writing to a message
                             base without locking it first. Please report if
                             you see it happen.

            2000   (Squish) The index file is too small when
                             compared to the number of messages indicated in
                             the base header. The base needs be fixed.

2001   (Squish) The end_frame field of the header is
                incorrect. The base needs be fixed.

2002   (Squish) The num_msg and high_msg fields are
                different, while they should always be equal.
                The base needs be fixed.

2003   (Squish) The value of the sz_sqhdr field is not
                what was   expected. If   you systematically
                encounter this error, it means that the version
                of Squish that was used to create the message
                base is different of the one I know of, and
                incompatible with it. This should not happen
                until the Squish format is seriously changed by
                its author.

2004   (Squish) A frame was not identified as such,
                due to an invalid Id. The base needs be fixed.

2005   (Squish) An unknown frame_type was encountered.
                Either the base is damaged, or the format is
                incompatible with the Squish 2.00 API.

_____

_____

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2006   (Squish) This error should not happen. It means
                that SqTool has tried to read a message that
                does not exist.

3001   (*.MSG) This is the same as 2006, but for *.MSG
                bases.

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```
     ---------------------------------------------------------------
     4       Technical, gory details
     ---------------------------------------------------------------
```

```
   4.1   UUEncode and extended attributes
     ---------------------------------------------------------------
```

As far as I know, the UUEncode "standard" does not make any
provision to uuencode extended attributes, so I decided to make
my own.

When using the "uue EAs" options of the ReplyWith keyword,
SqTool builds and uuencoded file which contains two files, each
enclosed in its own pair of "begin"/"end" statements. The first
file contains the actual source file, the second file its
extended   attributes.   The   second   file   is   named
"EAs.for.<filename>", where <filename> is the name of the main
file.

Depending on the decoder used to retrieve the file, the result
is as follows :

  . If the decoder does not handle several files in one archive,
    it will create the original file without the extended
    attributes.

. If the decoder does handle multiple files in one archive, but
  does not handle HPFS file names, the result is unknown to
  me ; the main file will be decoded, but there will be a
  problem with the EA's file.

. If the decoder handles multiple files in one archive and
  knows about HPFS, it will create two files, the main file and
  the EAs file. If the target file system is HPFS, the EA's
  file name will be as indicated earlier, otherwise unknown to
  me. Anyways, the user will then be able to reinstate the
  extended attributes with the EAUtil.Exe command (comes with
  OS/2).

. If you use my own uu-decoder, the file will be automatically
  decoded with its extended attributes. My decoder is freeware
  and should be available from hobbes.nmsu.edu as UUCode??.Zip
  (current version is UUCode13.Zip).

4.2   Foreign configuration files

SqTool supports some of the popular BBS configuration files. If
you would like SqTool to support another configuration file
format, please get in touch with me (see "Support").

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4.2.1 Squish.Cfg

The following   keywords   are   recognized in   a Squish.Cfg
configuration file :

Address   Your main Fidonet address.

AreasBBS   The name of an Area.BBS file.

NetArea   Definition of a Netmail area.

EchoArea   Definition of an Echomail area.

LocalArea   Definition of a local area.

Only the "-f", "-p" and "-$" flags of area definitions are used
by SqTool.

4.2.2 Areas.BBS

The following information is retrieved from an Areas.BBS
configuration file :

. All Squish and *.MSG message areas configuration. Areas are

assumed to be of Echomail type. The alias (aka) is not used, since it does not appear to be accurate for point systems.

4.2.3 LoraBBS

The following information is retrieved from LoraBBS configuration files :

. All Squish and Fido (*.MSG) message areas configuration, including Aka, description and origin line ;

. All file areas, except those that don't have a short name defined : YOU MUST DEFINE A SHORT NAME with Lora's configuration program if you want SqTool to use the file areas. The short name of file areas is the equivalent of the "Echo-tag" for message areas.

4.2.4 Files.BBS

Files.BBS files are text files containing a list of files and their descriptions. They are used by many BBS softwares to store a list of files in a file area.

However, there does not appear to be any real standard format for this file.

SqTool will understand any file that follow these rules :

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. a line that begins with one or several characters " " (space), ">", "<" or "+" will be considered as an extended description line. Any line that does not begin with one of these characters will be considered as a "normal" line.

. a normal line contains a file name, a space, then a description for the file. This means that no file name should contain a space.

. empty lines are ignored.

Example of a valid Files.BBS file :

```
Dial153.zip Dialer v1.53, beta
FWADP28.ZIP This is the patched FAX.ADP file for
 >Faxworks Lite and the USR Sportster
 >28800 FAX Modems.
ic10390.zip Correctif pour OS/2 Warp Connect/MPTN
 >\mptn\protocol\afinet.sys
 >\mptn\bin\inetcfg.exe
web103.zip WebExplorer V1.03
WKICKR.ZIP  Corrective Service Facility disks for
 >installing OS/2 FixPaks.
```

4.3   FileFind requests processing

SqTool accepts the same request syntax as defined by Allfix,
including handling of boolean operations defined with "And",
"Or" and "XOr".

SqTool being HPFS-aware, a request such as :

   "*abc*def*"

is valid and would return any file which's name contains the
strings "abc" and "def", in this order.

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4.4   External execute

This section relates to the "Execute" option of the "Action"
keyword of message filters.

The process may use (retrieve) the following environment
variables :

. MsgFrom   "from" field of the message

. MsgTo   "to" field of the message

. MsgSubject   "subject" field of the message

. MsgOrigin   origin address of the message

. MsgDest   destination address of the message

. MsgWritten   date at which the message was written

. MsgBody   The name of a temporary file where SqTool has

stored the message content (without header information).

Note that invalid characters ("@", "=", "<", ">", control characters) will be replaced with a "*" when setting the environment variables. This is important to keep in mind if your filter processes messages with Internet addresses in the header (the "@" of the Internet address will be replaced with a "*").

The process will always be executed through the command processor (as defined by the COMSPEC environment variable).

The "Execute" option is a very powerful one, which enables you to do virtually anything through mail, specially when used together with REXX scripts. Beware, however, that this might be a widely open security hole. Imagine what could be done with a filter such as :

```
BeginFilter
    Scan NetMail
    Include To "Executor"
    Action Execute "%MsgSubject% >c:\Execute.Res"
    ReplyWith DelPrev DelAfter "c:\Execute.Res"
    ReplyAttr Cra
EndFilter
```

This filter, when it encounters a message to "Executor" in the NetMail area, executes the command specified in the Subject field of the message and crash-replies with the output of the command.

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4.5   The SOUP interface

The soup format documentation is available from Rhys Weatherley at "rhys@cs.uq.oz.au" (well, so says the doc).

SqTool (partly) supports version 1.2 of the SOUP format. Within this specification, the following message file formats are handled :

. u   (import) USENET news articles

. m   (import) Unix mail

. b   (export) Binary mail

. B   (export) Binary news

Please drop me a note if you think others should be supported as well.

SqTool only uses the files AREAS and *.MSG when tossing a SOUP
packet. If an ERRORS file exists, it is displayed and dumped to
the log file.

SqTool only exports messages to newsgroups which you are
connected to, according to your newsrc file. That means that,
if you write a message to a group for which you don't receive
news using SOUP (ie, the group's name in newsrc is not followed
by a colon), this message won't be exported by SqTool's SOUP
interface.

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----
5   Variables

Variables are special codes that SqTool will replace with
values that are not known before execution time. They are used
in configuration texts, when you don't know yet what the value
will be (for instance, the first name of the addressee of a
message, etc.)

A variable code is composed of a variable name, enclosed in
accolades : "{" and "}".

Some variables are always available, other depend on what
action SqTool is performing.

  5.1   Always available

VersionNumber

  Of SqTool.

DateVersion

  This should be the date (month year) I produced the program.

SquishUserNo

  The value of the SquishUserNo configuration keyword.

FidoUserNo

  The value of the FidoUserNo configuration keyword.

MaxLogSize

  The value of the LogSizeLimit configuration keyword.

DefaultPath

  The path   where   SqTool.Exe resides, including a trailing
  backslash.

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AfxMaxAnswers

  The value of the AfxMaxAnswers configuration keyword.

AfxMaxReAnswer

  The value of the AfxMaxReAnswer configuration keyword (not
  implemented; always 50).

AfxMaxDescLines

  The value of the AfxMaxDescLines configuration keyword.

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   5.2   Context-dependant

   5.2.1 Message

        The following variables represent elements of a message, either
        the message that triggered a filter (OrgXXXX) or a message
        SqTool is ready to write (DstXXXX).

     OrgFrom (DstFrom)

      Content of the "from" field of the message.

     OrgFromFirst (DstFromFirst)

      First name of the "from" content.

OrgFromLast (DstFromLast)

 Last name of the "from" content.

OrgTo (DstTo)

 Content of the "to" field.

OrgSubject (DstSubject)

 Content of the "subject" field.

OrgLineCnt (DstLineCnt)

 Number of lines in the message.

OrgAttrib (DstAttrib)

 Attributes of the message.

5.2.2 Message area

The following variables describe a message area, either the one
that is being processed (OrgXXXX) or the one SqTool is ready to
write a message in (DstXXXX).

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OrgArea (DstArea)

 Short name (tag, echoid, etc.) of the message area.

OrgBaseType (DstBaseType)

 Message base type (Squish, *.MSG).

OrgMsgType (DstMsgType)

 Content of the message base (Echomail, Netmail, Internet).

OrgInitStr (DstInitStr)

Either the root file name (Squish bases) or the directory
(*.Msg).

5.2.3 File area

The following variables relate to a the file area being
processed.

FilArea

Name of the area (Tag).

FilFileList

Name of the file that contains the file list for this area
(Files.BBS).

FilFilePath

Path where the files of this area are stored.

FilDescript

Description of the area.

FilCount

Number of files in the area.

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FilTotSize

Total size of the files in this area.

5.2.4 FileFind requests

The following variables are relative to an answer to a filefind
request.

AfxRequest

Expanded version of the request (content of the Subject field
of the original message).

AfxFilesSearched

Number of files searched. This number is either the number of
files contained in all the AfxScan areas, or the number that
were searched to reach AfxMaxAnswers matches.

AfxFilesFound

Number of matching files found, limited to AfxMaxAnswers (first
request) or AfxMaxReAnswer (second request).

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    5.3   Variables summary

        This table lists where each variable may be used. The variables
        that are always available are not mentioned.

        A- ForwardHdr

        B- AfxFoundHdr, AfxFoundFtr, AfxMoreToCome

        C- [area header in file filters/Action List]

                              A B C

        OrgFrom   x x

```
OrgFromFirst          x x
OrgFromLast           x x
OrgTo                 x x
OrgSubject            x x
OrgLineCnt            x x
OrgAttrib             x x
    -----------------------------------------------------------------
DstFrom               x
DstFromFirst          x
DstFromLast           x
DstTo                 x
DstSubject            x
DstLineCnt            x
DstAttrib             x
    -----------------------------------------------------------------
OrgArea               x x
OrgBaseType           x x
OrgMsgType            x x
OrgInitStr            x x
    -----------------------------------------------------------------
DstArea               x
DstBaseType           x
DstMsgType            x
DstInitStr            x
    -----------------------------------------------------------------
                      A B C
    -----------------------------------------------------------------
FilArea                 x
FilFileList             x
FilFilePath             x
FilDescript             x
FilCount                x
FilTotSize              x
    -----------------------------------------------------------------
AfxRequest            x
AfxFilesSearched      x
AfxFilesFound         x
    -----------------------------------------------------------------
```

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```
    -----------------------------------------------------------------
    History
    -----------------------------------------------------------------
```

0.2   first public beta.

0.3   Added support   for   the   FileFind   requests
                  processor. The "LoraBBS" keyword now reads file
                  areas configuration. Added keywords "AfxScan",
                  "AfxUnscan", "AfxFoundHdr",   "AfxFoundFtr",
                  "AfxMaxDescLines", "AfxMaxAnswers", "FileArea".
                  Implemented "Action AllFix", added "Action
                  AllFixMore".

Fixed a bug with Scan and Unscan wildcard handling.

Implemented the "Include" keyword (when used outside a filter).

Fixed a number of various bugs.

Added the file filters features (which replace SqFilter's new file announce and all files lister features).

0.4   Fixed a bug when an empty line follows a "BeginFilter" keyword.

Added the "From", "To" and "Subject" keywords to file filters definitions.

Added the "AreasWrittenTo" keyword.

Added the command-line options "-Debug", "-InitPtr" and "-ReScan".

The documentation (SqTool.Prn) should now have form-feed characters where appropriate (if not, replace all occurrences of the string "< TOPOFPAGE >" with a form-feed :-)).

0.5 (Feb 96)   Added the "-Idle", "-NoFileFlt" and "-NoMsgFlt" command-line options.

"LocalArea" keyword now recognized in Squish.Cfg.

Added the "ForwardTo" action to message filters.

Changed the behavior when "Area" or "AreaDef" define an already defined message base : the

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old definition is now replaced with the new one. A warning message is still issued.

Added the "LockTimeOut" keyword.

Added "RepHeader" and "RepFooter" keywords to message filters.

SqTool now always sets the MSGID kludge line when the origin of the message is known.

Added the "From" option to the "ForwardTo" action.

Added the "MaxAnnPerMsg" keyword.

Sped-up the file-areas related code.

Added the "UpperCaseFNames" keyword.

Now retrieves origin lines from .SQO files.

0.6 (Mar 96)   Fixed a problem with external execute when a field of the message contains invalid characters ("@", "="...).

Added the "QuotePct" keyword.

Added the "/LOG=" command-line parameter.

Added support for SOUP packets. "SoupEMail", "SoupImportPath", "SoupExportPath", "SoupNewsrcFile" keywords.

Fixed a bug handling Squish messages with an empty control area.

Now correctly sets the DateWritten field to 0 for Squish locally entered messages.

Added the ability to enclose texts in quotes (") within configuration files, which should help keep them readable (see the new headers/footers definitions in SqTool.1st).

SqTool.Exe and KbdVio32.DLL are now compressed using LxLite by Andrew Zabolotny.

0.7 (Mar 96)   Improved handling of Internet mail header fields.

Added the "InternetAddress" keyword.

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Fixed a bug when exporting SOUP packets.

08 (Jun 96)   The SOUP import function now displays the ERRORS file, if it exists.

Various bugfixes and enhancements.

Added the "AfxMoreToCome" keyword.

Now handles the situation where a FILES.BBS file is in use by another process.

Added the "-NoSOUPIn" and "-NoSOUPOut" command-line parameters.

Started implementing the Variables' concept.

Added the "ForwardHdr" keyword.

Fixed a bug that prevented SqTool from exporting SOUP messages in different newsgroups in the same run.

MIME header lines are now exported to SOUP packets.

When anwsering a FileFind request, SqTool used to put its interpretation of the request on top of the answer. This is no longer the default, you must now use the {AfxRequest} variable in the AfxFoundHdr or AfxFoundFtr texts.

The text defined with AfxMoreToCome is now inserted (if needed) BEFORE the one defined with AfxFoundFtr.

Added the "Deutsch" keyword, support for German messages.

Read-only Files.BBS files (such as those found on CD-ROMs) are now handled correctly.

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