LifeLines Documentation

LifeLines Version 3.0.25

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 $\begin{array}{l} {\tt LifeLines} \ \textbf{Documentation}: {\tt LifeLines} \ \textbf{Version} \ \textbf{3.0.25} \\ {\tt by Thomas} \ T. \ Wetmore \ \emph{,} \ IV \\ \end{array}$

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Chapter 1. Users' Manual

INTRODUCTION

LifeLines is a genealogy program that runs on UNIX systems. It maintains genealogical records (persons, families, sources, events and others) in a database, and generates reports from those records. There are no practical limits on the number of records that can be stored in a LifeLines database, nor on the amounts or kinds of data that can be kept in the records. LifeLines does not contain built-in reports. Instead it provides a programming subsystem that you use to program your own reports and charts. The programming subsystem also lets you query your databases and process your data in any way. LifeLines uses the terminal independent features of UNIX to provide a screen and menu based user interface.

LifeLines is a non-commercial, experimental system that is use at your own risk software. I developed LifeLines for personal use and shared it with friends. Enough of a demand arose through word of mouth and internet, that I have made the LifeLines source code and other information freely available under an MIT-style license reproduced below:

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The source code, documentation and a collection of report scripts are located at http://lifelines.sourceforge.net/¹. You can also find binary kits for some platforms. If you are a developer and wish to contribute enhancements, please sign up on sourceforge and contact Marc Nozell² who is currently managing the project.

Note: Prior to 1999, Lifelines was available on the ftp sites, ftp.cac.psu.edu³ and hoth.stsci.edu⁴. Please use sourceforge instead.

INSTALLATION

You may be installing LifeLines from a source distribution package or as an executable program already prepared for your UNIX (or MS-Windows) system. The source distribution comes with the readme, build script and make files necessary to build LifeLines. Follow the instructions in the readme file. The executable program will be named **llines**. **llines** is the LifeLines program; put it in a directory in your execution path. If you get the program in executable form, follow whatever instructions came with it. The source distribution package also contains documentation and some LifeLines programs.

STARTING LIFELINES AND CREATING DATABASES

You normally start LifeLines with the command: **lines** database where database is the name of a LifeLines database. If LifeLines finds the database, LifeLines opens the database and takes you to the program's main menu. If the database doesn't exist, LifeLines asks whether it should create it, and if you answer yes, does so. You may create any number of databases, but only one can be accessed by LifeLines at a time. If you built the LifeLines executable from the source package, the executable may be named **llines** rather than **lines**. You may either change its name or invoke LifeLines by using the command **llines** instead.

```
The full command line interface to LifeLines is:
         lines [-adkrwifmntcuxoC][database]
The options mean the following:
-C
    Specify config file location (eg, -C/home/bill/lifelines/.linesrc2)
-F
    Finnish option (only available if so compiled)
-a
    log dynamic memory operation (for debugging)
-C
    supply cache values (eg, -ci400,4000f400,4000 sets direct indi & fam caches to
    400, and indirect indi & fam caches to 4000)
-d
    debug mode (signal protection disabled for convenience with breakpoints)
-f
    force open the database - use only in emergency
-i
```

open database with immutable access (no protection against other access -- for use on read-only media)

-k always show keys (normally keys are suppressed if REFN available) -I lock (-ly) or unlock (-ln) a database for use with read only media (access to a locked database is treated as immutable) -n do not use traditional family rules -0 Specify program output directory (eg, -o/tmp/mytests) -r open database with read-only access (protect against other writer access) -t trace function calls in report programs (for debugging) -u specify window size (eg, -u120,34 specifies 120 columns by 34 rows) -W open database with writeable access (protect against other writer or reader access) -X

The -r option opens the database with read-only access. When in this mode Life-Lines will not let you modify the database; no other operations are affected. The -w option opens the database with writeable access. If the database cannot be opened with the requested mode LifeLines quits immediately. When you open a database with neither the -r or -w options, LifeLines first tries to open the database with writeable access; if not possible LifeLines then tries to open the database with read-only access; and if this is not possible LifeLines quits. A LifeLines database may be open simultaneously by any number of programs with read-only access; however, if a database is open by a program with writeable access, then it cannot be opened by any other other program.

execute a single lifelines report program directly

In rare situations the read/write mode mechanism can fail; when this happens a database may appear unopenable. If this happens use the -f option to force open the database; this will open the database and reset the mode mechanism. This is a dangerous feature; you can use it to open the same database with writeable access more than once; the results are unpredictable and generally disasterous.

The multiuser protection supplied by this reader/writer access mechanism is provided via a flag setting in the database, so both read-only and writeable access actually alter the database (read-only access only alters the value of this flag). For truly read-only access, e.g., for use with read-only media, the best solution is to lock (-ly) the database before copying it to the read-only media. This annotates the database itself as being for immutable access. Alternatively, to use a database already on read-only media and not so annotated, use the immutable (-i) flag.

If you don't give the name of a database on the command line, LifeLines will prompt you for it. If you do not use the LLDATABASES shell variable or user options (described later), the name you enter must be the name of a LifeLines database directory expressed using normal UNIX absolute or relative path naming. If you do use the LLDATABASES variable, LifeLines will search for the database in the directories named in the variable; this can be very convenient.

If you would like to choose a database from a list of existing ones, enter a single question mark and press return when LifeLines prompts you for the database name. LifeLines will then display a list of all databases that it can find, and you may select one from the list.

INTRODUCTION TO GEDCOM

LifeLines records are stored in GEDCOM format; you organize, edit and maintain your data in this format. GEDCOM is a standard that defines a file format for moving genealogical data between computer systems. LifeLines has adopted this format for structuring the records in its databases. This approach provides a structured yet flexible method for storing all the data you wish to record. There are few restrictions on the format, amount or type of information you may store in a LifeLines database.

GEDCOM is defined at two levels. At the syntactic level GEDCOM is a simple set of rules for organizing and structuring data into records, with no concern about the types of records, types or formats of information in the records, or the relationships between records. At the semantic level GEDCOM adds an additional set of rules that specify what record types are allowed, how records must be structured, how data within the records must be identified and formatted, and what specific relationships between the record types are allowed. In principle there can be multiple semantic versions of GEDCOM, though in practice there is only one, lineage-linked GEDCOM. Unfortunately this semantic version of GEDCOM is poorly defined, and every genealogical system has interpreted it in different ways.

LifeLines uses GEDCOM primarily at the syntactic level, though it does impose a few of the generally accepted lineage-linked semantic restrictions. This means some important things. It means that you can store all your genealogical data in your LifeLines database, and that you have wide freedom in how you choose your own conventions for structuring and formatting your data. But it also means that the way you store data in your databases can be different from the way that someone else stores their data. This can be a problem if you share data with others or share report programs with other LifeLines users. My recommendation is to use GEDCOM lineage-linking conventions wherever possible.

LifeLines does not use forms or screens to guide you through entering or changing data. Instead you use a screen editor and directly edit the data records. This requires you to understand the GEDCOM format, and be able to edit data in GEDCOM format, before you can use LifeLines. The GEDCOM format is quite simple; this introduction will provide all you need to know about GEDCOM in order to use LifeLines.

Here is an example GEDCOM person record:

Example 1-1. GEDCOM person record

```
0 @I25@ INDI
1 NAME Thomas Trask /Wetmore/ Sr
1 SEX M
1 BIRT
  2 DATE 13 March 1866
  2 PLAC St. Mary's Bay, Digby, Nova Scotia
  2 SOUR Social Security application
1 NATU
  2 NAME Thomas T. Wetmore
  2 DATE 26 October 1888
  2 PLAC Norwich, New London, Connecticut
  2 AGE 22 years
  2 COUR New London County Court of Common Pleas
  2 SOUR court record from National Archives
1 OCCU Antiques Dealer
1 DEAT
  2 NAME Thomas Trask Wetmore
  2 DATE 17 February 1947
  2 PLAC New London, New London, Connecticut
  2 AGE 80 years, 11 months, 4 days
  2 CAUS Heart Attack
  2 SOUR New London Death Records
1 FAMC @F11@
1 FAMS @F6@
1 FAMS @F12@
```

A GEDCOM record is made up of lines. Each line has a level number and a tag, and most lines have a value following the tag. The first line in every record has a cross-reference index between the level number and the tag.

Level numbers allow data to be structured to any degree of detail; lines with higher level numbers expand on lines with lower numbers. Each record begins at level 0, and each deeper level increments the level by one. LifeLines does not restrict the structuring depth. Tags are uppercase (by convention) code words that specify the kind of information on the line or on the higher numbered lines that follow. The information after the tag, if any, is the value of the line.

The first line in a record indicates its type. There are four fixed record types in Life-Lines databases: person, family, source and event. The first, 0 level line in these records have tags INDI, FAM, SOUR and EVEN, respectively. Besides these record types, you may create your own record types by using any other tag on the 0 level line of a record. The lines that begin records are the only level 0 lines used in Life-Lines. Each level 0 line has a cross-reference index between the level number and the tag. This index is the record's internal reference key; other records may refer to this record by using this index. Cross-reference indexes are bracketed by @ characters.

The first line in the example record has the INDI tag, identifying it as a person. The cross-reference index value, I25, can be used by other records to refer to this record.

The second line in the example has the person's name. Each person record in a Life-Lines database must have at least one 1 NAME line, and its value must be in GED-COM name format. This format allows names to be as long as needed, but the surname, which may be placed anywhere in the name, must be separated from the rest of the name by one or two slashes. For example:

Example 1-2. Example of NAME formats

```
1 NAME John/Smith
1 NAME John /Smith/
1 NAME John/Smith/Jr.
```

The second slash is required only if name elements follow the surname. White space is optional before the first slash and after the second. If you don't know a person's surname, or the person doesn't have a surname, you may use / or // or no slashes at all. For example:

Example 1-3. Example of searching on NAMEs

```
1 NAME Mary//
1 NAME Mary/
1 NAME Mary
```

are all ways to enter a person named Mary with no known surname. A person may have any number, including zero, given names and/or initials. A LifeLines person record may have any number of 1 NAME lines, though the person will be displayed with the first name value only. Persons are indexed under all their names, however, so you will be able to search for persons by any of their names.

The next line in the example gives the person's sex. LifeLines doesn't require a 1 SEX line, but you should include it. The value of the line should be M or F if the sex is known; it can be left blank or set to U or ?, say, if not known. A person must have a 1 SEX line with a value of either M or F before he or she can be made a spouse or parent in a family.

The example record also contains three events: birth, naturalization, and death. An event begins with a level 1 line whose tag indicates the event type. For example, BIRT is the tag for a birth event.

Events usually have at least a 2 DATE and a 2 PLAC line and often a 2 SOUR line. The DATE and PLAC lines give the date and place of the event. The value of a Life-Lines DATE line is free format, though LifeLines will try to parse it for specific day, month and year information. The value of a PLAC line is usually a comma-separated list of geopolitical units, starting with the most specific, ending with the most general. The SOUR line indicates the source of information about the event. The SOUR line can be the root of a full description of the source, or the value of the SOUR line can be a cross-reference key that refers to the source record that describes the source.

The naturalization event (with tag *NATU*) shows a few other lines. The *2 NAME* line gives the person's name as recorded in the source (only *1 NAME* lines must follow GEDCOM format). The *2 AGE* line gives the person's age at the time of the event. The *2 COUR* line indicates the court where naturalization occurred.

The final event is a death event (tag DEAT). The 2 CAUS line gives the cause of death.

At the end of the record are three lines that refer to family records. A 1 FAMC line refers to a family record that the person belongs to as a child; its value is the cross-reference index value of that family. A 1 FAMS line refers to a family record that the person belongs to as a spouse or parent.

When using LifeLines to edit a person, you will not be able to edit the cross reference values on the 0 INDI, 1 FAMC or 1 FAMS lines; these are maintained by LifeLines.

Here is an example family record:

Example 1-4. Example family record

```
0 @F6@ FAM
1 HUSB @125@
1 WIFE @126@
1 MARR
2 DATE 31 March 1891
2 PLAC New London, New London, Connecticut
2 SOUR New London Vital Records
1 CHIL @127@
1 CHIL @117@
```

The 0 FAM line assigns the family the cross-reference index of F6. The record contains 1 HUSB and 1 WIFE lines that refer to the two spouses/parents. The record also holds a marriage event (tag MARR) and two 1 CHIL lines that refer to two children in the family. When editing family records, you cannot edit the 0 FAM, 1 HUSB, 1 WIFE, or 1 CHIL lines; these are maintained by LifeLines.

When you create new records for your database, you are free to invent tags and structure your data in any way you see fit. However, it is good practice to use standard GEDCOM tags and value formats. LifeLines does enforce a small set of conventions that you must obey. Within person records, LifeLines requires that you use 1 NAME and 1 SEX lines with their special meanings and value formats. Though not required, LifeLines assumes that you will use 1 BIRT, 1 DEAT, 1 CHR, and 1 BURI lines for birth, death, baptism and burial events, respectively. In family records, LifeLines assumes you will use the 1 MARR event for marriage events. Within person records, you are not allowed to use 0 INDI, 1 FAMC or 1 FAMS lines, since these are used to maintain linkage information. Within family records, you are not allowed to use 0 FAM, 1 HUSB, 1 WIFE or 1 CHIL lines.

The indentation shown in the examples is not part of GEDCOM format. When Life-Lines prepares records for you to edit, however, it always indents the records, making them easier to read and understand. You do not need to follow this indentation scheme when you edit the records. Indentation is removed from the data before it is stored in the database.

MAIN MENU

After LifeLines opens an existing database, or creates a new one, it presents you with the main menu:

```
Please choose an operation:

b Browse the persons in the database
s Search database
a Add information to the database
d Delete information from the database
p Pick a report from list and run
r Generate reports from the database
t Modify character translation tables
u Miscellaneous utilities
x Handle source, event and other records
q Quit and return to UNIX
```

Select an operation by striking the proper selection letter.

The browse operation lets you browse the database and perform many operations on the data. The search operation provides some simple wildcard search capabilities, which lead into browsing particular records. The add operation lets you add new information, and the delete operation removes information. The report operations

read report programs and generates output reports. The modify character translation tables operation changes the translation tables. The miscellaneous utilities operation provides such things as backup and restore. The handle source, event and other records operation gives you access to these three record types. The quit operation closes the database and returns to UNIX.

The browse operation deserves special mention, because it provides a rich environment for searching, viewing, adding, modifying, merging and deleting information in the database. You will find that you operate from the browsing modes most of the time. The operations are all described in later sections.

ENTERING THE FIRST PERSON

Normally you add persons to the database from the browsing modes, but when entering the first person there is no one in the database to browse to. To add the first person to a LifeLines database, first select the add operation from the main menu. You will be prompted with the add menu (described later). Strike p to add a person. LifeLines creates a template of a GEDCOM person record, and puts you in a screen editor to edit the template. The default template is:

Example 1-5. Default person record template

```
0 INDI
1 NAME Fname /Surname/
1 SEX MF
1 BIRT
2 DATE
2 PLAC
2 SOUR
1 DEAT
2 DATE
2 PLAC
2 SOUR
```

Edit the template to create the new person's record. Change the name to the person's name. Assign the person's sex by deleting either **M** or **F**. Fill out the birth and death events as best you can. If the person is alive, remove the death event. Remove any *DATE* and *PLAC* lines you do not have the information for.

The default template provides lines for one birth and one death event. You can expand the record with other events (even more birth or death events) and lines. Indentation makes it easier to read and edit the record, but isn't necessary. You may change the default edit template by defining the user option INDIREC (described later).

Here is how I might edit the template when creating a record about myself:

Example 1-6. Example editing of template record

```
0 INDI
1 NAME Thomas Trask /Wetmore/ IV
1 SEX M
1 BIRT
2 DATE 18 December 1949
2 PLAC New London, New London, Connecticut
2 SOUR Birth Certificate
1 OCCU Software Engineer
1 RESI
2 DATE 1982 to 1995
2 PLAC Newburyport, Essex, Massachusetts
```

2 ADDR 2 Barton Street, Newburyport, MA 01950

... lots of other events and facts

When you edit a person record, don't add or modify INDI, FAMC or FAMS lines. LifeLines creates and maintains these lines through specific user commands.

When you finish editing and leave the editor, you automatically return to LifeLines. If you made an error (eg, didn't use proper level numbers or didn't follow the proper name convention), LifeLines displays an error message, and asks if you want to re-edit the record. If you don't, LifeLines doesn't add the person to the database.

When the record is in proper format, LifeLines asks if you are sure you want to add the person to the database. If you answer yes, the person is added; if you answer no, the person isn't. In both cases LifeLines returns to the main menu.

SCREEN EDITORS AND ENVIRONMENT VARIABLES

With LifeLines you maintain the database records using a screen editor. This is different than other genealogical programs where screens or forms are used to gather the data. The default screen editor for LifeLines is vi. (The MS-Windows version defaults instead to notepad.exe.) This can be overridden by the ED, EDITOR or LLEDITOR environment variables. For example, if you prefer the emacs screen editor, and if you use a bourne-compatible shell, you may add the line: **ED=emacs** to your login profile file, and LifeLines will use emacs for editing.

There are five other, LifeLines specific environment variables. They are LLDATABASES, LLARCHIVES, LLPROGRAMS, LLREPORTS, and LLNEWDBDIR. LLDATABASES and LLPROGRAMS are UNIX path list variables.

There is also a configuration file, and entries in it may be used in lieu of environment variables. It is ordinarily named .linesrc under UNIX, and lines.cfg under MS-Windows. A sample configuration file should have been included in the distribution.

LLDATABASES can be set to a list of directories that hold LifeLines databases. When you execute the LifeLines program, these directories will be searched in turn for the database mentioned on the command line. For example, LLDATABASES=.:/home/ttw4/LifeLines/Databases indicates that databases should be searched for in the current directory first, and if not found there, then searched for in: /usr/ttw4/LifeLines/Databases

Each LifeLines database is implemented as a directory with specific contents. The LLDATABASES variable should be set to a list of directories that contain these database directories, not to a list of database directories themselves.

The environment variable LLPROGRAMS is used in the same way, but to specify the search path for LifeLines report generating and other programs (described later).

LLARCHIVES and LLREPORTS can each be set to specify a single directory. LLARCHIVES is used to select a directory where all database backup files will be stored, and LLREPORTS is used to select a directory where all generated reports and program outputs will be placed.

LLNEWDBDIR may be set to specific a single directory - new databases without paths will be created in this location if given. This is of course a convenience for users who generally put all their databases under a single common directory.

You are not required to use these environment variables; when a variable is not defined, LifeLines uses the current directory as its default value. If you do use the variables, you can override their use by specifying files and directories as either absolute or relative paths.

You may use the configuration file in lieu of environment variables. This is especially oriented towards users on MS-Windows systems, on which environment variables are not as common a configuration technique.

LifeLines uses the curses library for terminal independent I/O. This requires you to specify your terminal type with the TERM environment variable. (This is not relevant in the MS-Windows version.)

BASICS OF BROWSING

You will use the browsing screens of LifeLines most of the time. When in these modes you can quickly search for or browse through the persons and families in the database. When you find a person or family you are interested in, you can then edit their records.

The browsing screens also allow you to add new persons and families to the database, add spouses to families, add children to families, swap the order of spouses and children, merge persons and merge families, and perform other operations. The browsing screens also lets you remove spouses from families and remove children from families.

There are six browsing screens. The person and family screens concentrate on a single person and family, respectively. The list screen allows you to browse through a list of persons. The person tandem screen shows two persons at once, and the family tandem screen shows two families at once. The auxiliary screen is used browsing any other type of records (e.g., events, sources, notes).

Each browsing screen has multiple view modes. The view mode affects how the information is displayed on the screen, but does not affect the menu choices available at the bottom of the screen. Menu commands are available on each screen to change amongst the view modes available for that screen.

The person screen has the most view modes. It has normal mode, which shows a summary of the vital records of the person. It (like all other screens) has GEDCOM mode, which shows the actual GEDCOM data of the record, and also expanded GEDCOM mode, which shows the actual GEDCOM data, but augments it with information on each line that contains a cross-reference (GEDCOM xref). It has two pedigree or tree modes, one showing an ancestral tree and one showing a descendant tree. The depth of the pedigree trees shown may be adjusted via menu commands.

The tandem person screen has the same modes as the person screen.

The family screen and tandem family screen alike have normal mode (showing a summary of vitals), GEDCOM mode, and expanded GEDCOM mode.

The auxiliary screen has only GEDCOM mode and expanded GEDCOM mode. (The list screen has no view modes at present).

IDENTIFYING A PERSON OR LIST OF PERSONS TO BROWSE

To enter the browsing modes from the main menu strike b. LifeLines asks you to identify a person or list of persons to browse to:

```
Please identify person or persons to browse to. Enter name, key, refn or list:
```

Enter either a name or partial name, or an internal key value, or a user-defined reference key (described later) or the name of a previously defined list of persons (described later), and strike return.

LifeLines allows wide flexibility in how to enter names. You may enter a name in upper or lower case or any combination. You may leave out all but the first given name, and, for given names, you may leave out any letters except the first. You may leave vowels out of the surname, and after four or five consonants have been typed, you may leave them out too. You must separate the given names from the surname by a slash, and if you enter given names after the surname (as in Chinese names), or any modifiers (such as Jr, Sr, IV, etc.), they must be separated from the surname by another slash. Here are a few of the ways I can enter my name:

Example 1-7. Example of entering a name

Thomas Trask / Wetmore/ IV thomas/wetmore/iv t t/wetmr/i th tr/Wetmore t/wtmr/iv

You may browse to the list of all persons with the same surname by using the * character as the first initial. For example:

Example 1-8. Example of using wildcard in browsing

*/wetmore

matches all persons with surname Wetmore. This is the only wildcard feature supported in browsing. (However, the search operation provides some simple wildcards for finding individual name fragments, or searching by user-defined reference keys. The search operation is accessed via a different choice off of the main menu.)

After you enter a name, LifeLines searches for all persons who match. There are three possibilities: no one matches; one person matches; or more than one person matches. In the first case LifeLines writes:

There is no one in the database with that name.

and leaves you in the main menu.

If one person matches, LifeLines enters the person browse mode displaying the matched person. If more than one person matches, LifeLines enters the list browsing mode with the list of matching persons.

You may also identify a person by entering his or her internal, cross-reference key value. The internal key values of all person records are an I followed by digits. In the current version, when you enter a key value you must omit the I. If LifeLines finds a person with the key value you provide, LifeLines enters the person browsing mode displaying that person.

The browse command b is also available from most browsing modes. The command works the same way from those modes as it does from the main menu.

ZIP IDENTIFYING A NEW PERSON

Some LifeLines operations need you to identify a person, not for the purpose of browsing, but for the purpose of completing an operation you have requested. For example, when you add a child to a family, LifeLines may ask you to identify the child. When this happens a panel pops up that asks you to identify a person. You respond by typing a name or key exactly as you would for the b command. If no one

matches, LifeLines returns to the previous browsing mode. If the name matches persons in the database LifeLines displays something like:

```
Please choose from among these persons.

>Thomas Trask Wetmore, b. 1826, N.B. (42)
Thomas Trask Wetmore IV, b. 1949, Conn. (1)
Thomas Trask Wetmore III, b. 1925, Conn. (6)
Thomas Trask Wetmore Jr, b. 1896, Conn. (11)
Thomas Trask Wetmore Sr, b. 1866, N.S. (23)
Thomas Trask Wetmore V, b. 1982, Mass. (5)

Commands: j Move down k Move up i Select q Quit
```

Use the j and k commands to move the selection cursor (>) to the correct person, and then use the i command to select that person. There may be more persons in the list than you can see at once. If this is so then you can use the j and k commands to scroll through the full list. If you don't find the proper person, use the q command and LifeLines asks whether you want to enter another name.

With version 3.0.15, lists may also be navigated with the up and down arrows, PageUp and PageDown keys, Home and End keys. Shift-PageUp and Shift-PageDown move more than one page at a time in a given direction. The keyboard equivalents are j=UpArrow, k=DownArrow, u=PageUp, d=PageDown, ^=Home, \$=End, U=Shift-PageUp, D=Shift-PageDown, i=Enter.

When LifeLines creates a list of names for you to select from, it tries to add extra information to the name; this helps determine which name to choose, and is important in databases where many persons have the same name. LifeLines also places the person's key value at the end of each menu line; this may be helpful in large databases.

Some browse screens provide the z command, which allows you to browse to a new person using the zip style of identification rather than the b style.

BROWSE DISPLAY BASICS

The screen display for each browsing screen is made up of panels. At the bottom of each display is a message panel used for one line messages. Each display contains one or two data panels showing information from the database. And each display has a panel with the operation menu available for that screen.

PERSON BROWSE SCREEN

After you identify a person to browse to, LifeLines enters the person browse screen. The top panel in the display gives basic information about the person (in the normal, or vitals, mode, which is the default). The middle panel provides a menu of commands. For example:

```
person: Thomas Trask WETMORE Sr (25)
born: 13 March 1866, St. Mary's Bay, Digby, Nova Scotia
died: 17 February 1947, New London, New London, Connecticut
father: Daniel Lorenzo WETMORE, b. 1821, N.S., d. 1903, Conn. (48)
mother: Mary Ann DOTY, b. 1824, N.S., d. 1897, Conn. (59)
spouse: Margaret Ellen KANEEN, b. 1855, Eng., d. 1900, Conn. (26)
child: Portia Louise WETMORE, b. 1892, Conn., d. 1921, Conn. (27)
child: Thomas Trask WETMORE, b. 1896, Conn., d. 1970, Conn. (17)
spouse: Arleen M KEENEY, m. 1914, Conn. (75)
```

```
Please choose an operation: (pg 1/3)
e Edit the person g Browse to family p Show pedigree
```

```
Browse to father u Browse to parents n Create new person a Create new family s Browse to spouse/s h Add as spouse x Swap two families c Browse to children i Add as child tt Enter tandem mode o Browse to older sib r Remove as spouse ? Other menu choices y Browse to younger sib d Remove as child q Return to main menu
```

LifeLines -- Person Browse Screen

The commands perform a wide variety of functions.

e Edit the person.

Edit the person's database record. LifeLines puts the record in a file, and then runs a screen editor so you can edit the record. When you return from the editor, LifeLines asks you to confirm any changes; the person is changed only if you answer yes.

f Browse to father.

Browse to the person's father. If the father isn't in the database, LifeLines doesn't change the display. If there are more than one father, LifeLines asks you to select one.

m Browse to mother.

Browse to the person's mother. If the mother isn't in the database, LifeLines doesn't change the display. If there are more than one mother, LifeLines asks you to select one.

s Browse to spouse/s.

Browse to the person's spouse. If the person has more than one spouse, Life-Lines asks you to select one. If the person has no spouse, the display does not change.

c Browse to children.

Browse to one of the person's children. If there is more than one child, LifeLines asks you to select one. If the person has no children, the display does not change.

o Browse to older sib.

Browse to the person's next older sibling. If the person has no such sibling, the display does not change. Only siblings from the same family are browsed by this command.

y Browse to younger sib.

Browse to the person's next younger sibling. If the person has no such sibling, the display does not change. Only siblings from the same family are browsed by this command.

g Browse to family.

Browse to the family the person is a spouse or parent in, and switch to the family browse mode. If the person is in more than one family, LifeLines asks you to identify which one. If the person is not a spouse or parent in any family, the display does not change.

u Browse to parents.

Browse to the family the person is a child in, and switch to the family browse mode. If the person is not a child in a family, the display does not change. If the person is a child in more than one family, LifeLines asks you to identify which one

b Browse to persons.

Browse to a new person or list of persons. LifeLines asks you to identify a person or persons by name, key or list name, and depending on how many persons are identified, switches either to the list browse mode, or remains in the person browse mode.

h Add as spouse.

Add the person as a spouse/parent to an existing family. LifeLines asks you to identify the family, and then asks you to confirm the request.

i Add as child.

Add the person as a child to an existing family. The person may already be a child in another family. LifeLines asks you to identify the family, and then asks you to confirm the request.

r Remove as spouse.

Remove the person as a spouse or parent from an existing family. If the person is a spouse or parent in more than one family, LifeLines asks you to identify the family.

d Remove as child.

Remove the person as a child in an existing family.

n Create new person.

Create and add a new person to the database. LifeLines creates a record template and puts you into the screen editor to edit the record. When you return from the editor, LifeLines asks you to confirm the operation. If you do, the new person is added and becomes the current person. If not, the new person is not added, and LifeLines returns to the original display.

a Create new family.

Create and add a new family to the database. The new family may have the current person as either a spouse/parent or as a child; LifeLines asks which. If you choose to create a family with the person as a spouse/parent, LifeLines asks you to identify the other spouse if he or she is known. In either case LifeLines creates a family template, and places you in the screen editor. When you return from the editor, LifeLines asks you to confirm the operation. If you do, LifeLines adds the family and shifts into family browse mode. If the command you ran just before the a command were the n command, and you choose to create a family with the person as a spouse/parent, LifeLines guesses that the other spouse in the family will be the person displayed just before the new person was created. LifeLines asks you if this is the case, and if so, automatically make that person the other spouse in the new family. If this is not the case, LifeLines asks you to identify the other spouse.

p Show pedigree.

Change to pedigree browse mode. The person becomes the root person in the pedigree display.

x Swap two families.

Swap (change chronological order) any two families that the person belongs to as a spouse or parent. LifeLines asks you to identify the two families and then swaps them.

t Enter tandem mode.

Change to the tandem person browse mode. LifeLines first asks you to identify the second person.

? Other menu choices.

Go to the next page of menu choices. This will have no effect on the upper (data) portion of the screen, but it allows you to page through all available commands for this display screen.

q Return to main menu.

Return to the LifeLines main menu.

z Zip browse to person.

Zip browse to a new person. LifeLines asks you to identify a person by name or key value, and if you do so, browses to that person.

LIST BROWSE SCREEN

This browse screen handles lists of persons. The top panel shows information about one person in the list. The left panel shows a list of up to 12 persons. The person shown in the top panel is identified by the > character. The right panel is the menu of available commands.

```
person: Thomas Trask WETMORE Sr (25)
 born: 13 March 1866, St. Mary's Bay, Digby, Nova Scotia
 died: 17 February 1947, New London, New London, Connecticut
  father: Daniel Lorenzo WETMORE, b. 1821, N.S., d. 1903, Conn. (48)
 mother: Mary Ann DOTY, b. 1824, N.S., d. 1897, Conn. (59)
 spouse: Margaret Ellen KANEEN, b. 1855, Eng., d. 1900, Conn. (26)
 Thomas Trask WETMORE (42)
                                           Choose an operation:
 Thomas Trask WETMORE III (6)
                                           j Move down list
 Thomas Trask WETMORE IV (1)
                                           k Move up list
 Thomas Trask WETMORE (11)
                                           e Edit this person
 >Thomas Trask WETMORE Sr (23)
                                           i Browse this person
  Thomas Trask WETMORE (5)
                                           m Mark this person
                                           r Remove from list
                                           t Enter tandem mode
                                           n Name this list
                                            b Browse new persons
                                            a Add to this list
                                            x Swap mark/current
                                            g Return to main menu
```

LifeLines -- List Browse Screen

j Move down list.

Move down the list one person. The list panel is only large enough to show 12 persons. However, the list may contain many more persons. Use the j and k commands to scroll to these other persons.

k Move up list.

Move up the list one person. The list panel is only large enough to show 12 persons. However, the list may contain many more persons. Use the j and k commands to scroll to these other persons.

With version 3.0.15, lists may also be navigated with the up and down arrows, PageUp and PageDown keys, Home and End keys. Shift-PageUp and Shift-PageDown move more than one page at a time in a given direction. The keyboard equivalents are j=UpArrow, k=DownArrow, u=PageUp, d=PageDown, ^=Home, \$=End, U=Shift-PageUp, D=Shift-PageDown, i=Enter.

e Edit this person.

Edit the displayed person's database record. LifeLines runs the editor on the person's record. When you return from the editor, LifeLines asks you to confirm any changes, and then leaves you in the list browse screen.

i Browse this person.

Change to the person browse screen with the current person.

m Mark this person.

Mark the current person if he/she is not marked; unmark the person is he/she is. The marked person is shown with an x by his/her name. Marked persons are used by the t and x commands. Only one person may be marked at a time.

r Remove from list.

Remove the current person from the browse list (not from the database).

t Enter tandem mode.

Change to the tandem person mode with the current person and the marked person as the two persons. If no person is marked there is no change.

n Name this list.

Lists of persons may be named, allowing you to quickly browse back to them by giving a list name in response to the b command from different modes. Life-Lines will prompt you for the name. List names are most convenient when short.

b Browse new persons.

Browse to a new person or list of persons. You can identify a person or list of persons by name, internal or user key or by list name.

a Add to this list.

Add more persons to the current browse list. LifeLines asks you to identify a new person or list of persons by name, key or list name, and they are added to and name-sorted into the current list.

x Swap mark/current.

Swap the current person with the marked person in the list.

q Return to main menu.

Return to the LifeLines main menu.

FAMILY BROWSE SCREEN

This browse screen displays information about a family. The top panel shows basic information about the family. The bottom panel shows the menu of available commands

```
father: Thomas Trask WETMORE IV (1)
 born: 18 December 1949, New London, New London, Connecticut
 died:
mother: Luann Frances GRENDA (2)
 born: 10 July 1949, Pittsburgh, Allegheny, Pennsylvania
 died:
married: 1 August 1970, Governors Island, New York, New York
 child: Anna Vivian Wetmore, b. 1974, Alaska (3)
 child: Marie Margaret WETMORE, b. 1979, Conn. (4)
 child: Thomas Trask WETMORE V, b. 1982, Mass. (5)
Please choose an operation:
                                     (pq 1/4)
e Edit the family %s Add source f Browse to father %e Add event
                                                 r Remove spouse from
                                                 d Remove child from
m Browse to mother %o Add other
                                                x Swap two children
c Browse to children s Add spouse to family ? Other menu choices
n Create new person a Add child to family q Return to main menu
```

LifeLines -- Family Browse Screen (* toggles menu)

e Edit the family.

Edit the family's record. LifeLines writes the record to a file and puts you into an editor to edit the file. When you return from the editor, LifeLines asks you to confirm the update; the family is changed only if you do so.

f Browse to father.

Browse to the father/husband of the family, switching to person browse screen. If the father is not there, there is no change.

mBrowse to mother.

Browse to the mother/wife of the family, switching to person browse screen. If the mother is not there, there is no change.

c Browse to children.

Browse to a child in the family, switching to the person browse screen. If the family has more than one child, LifeLines asks you to identify a specific child.

n Create new person.

Create and add a new person to the database. LifeLines creates a record template and puts you into the screen editor to edit the record. When you return from the editor, LifeLines asks you to confirm the operation. If you do, the new person is added to the database. If not, the new person is not added. In both cases the display does not change.

s Add spouse to family.

Add a spouse to the family. LifeLines asks you to identify the new spouse. If the command you ran just before the s command were the n command, LifeLines guesses that the new spouse will be the person just created. LifeLines asks if this is the case, and if so, makes that person the second spouse in the family. If not, LifeLines asks you to identify the other spouse.

a Add child to family.

Add a child to the family. LifeLines asks you to identify the new child. If the command you ran just before the a command were the n command, LifeLines guesses that the new child will be the person just created. LifeLines asks if this is the case, and if so, adds that child to the family. If not, LifeLines asks you to identify the child. If the family already has children, LifeLines also asks where to place the new child in the family.

r Remove spouse from.

Remove a parent/spouse from the family. LifeLines asks you to identify the person, and if you do, removes him or her. The person is not removed from the database.

d Remove child from.

Remove a child from the family. LifeLines asks you to identify the child should, and if you do, removes the child from the family. The person is not removed from the database.

x Swap two children.

Swap (change the chronological order) of any two children in the family. Life-Lines asks you to identify the two children and then swaps them.

t Enter family tandem.

This command takes you to the tandem family browse screen. LifeLines asks you to identify a second family, and then takes you to the tandem family screen, displaying both the two families.

b Browse to persons.

Browse to a new person or list of persons. You can identify a person or list by name, by key, or by list name. If you successfully identify a new person or persons you will switch into the person or list browse screens.

z Browse to person.

Zip browse to a new person. LifeLines asks you to identify a person by name or key value, and if you do, browses to that person.

q Return to main menu.

Return to the LifeLines main menu.

TANDEM PERSON BROWSE MODE

The tandem person browse screen displays information about two persons. Its main use it to support the person merging operation. The top two panels show two persons in the format used in the person and list screen displays. The bottom panel gives the menu of available commands. For example:

```
person: Thomas Trask WETMORE Sr (25)
  born: 13 March 1866, St. Mary's Bay, Digby, Nova Scotia
  died: 17 February 1947, New London, New London, Connecticut father: Daniel Lorenzo WETMORE, b. 1821, N.S., d. 1903, Conn. (48)
  mother: Mary Ann DOTY, b. 1824, N.S., d. 1897, Conn. (59)
  spouse: Margaret Ellen KANEEN, b. 1855, Eng., d. 1900, Conn. (26)
person: Thomas Trask WETMORE IV (1)
 born: 18 December 1949, New London, New London, Connecticut
  died:
  father: Thomas Trask WETMORE III, b. 1925, Conn. (6)
  mother: Joan Marie HANCOCK, b. 1928, Conn. (7)
  spouse: Luann Frances GRENDA, m. 1970, N.Y. (2)
Please choose an operation:
 e Edit top person s Browse top spouse/s a Add family
 t Browse to top
                       c Browse top children j Merge bottom to top
 f Browse top father b Browse to persons \ensuremath{\mathbf{x}} Switch top/bottom
 m Browse top mother d Copy top to bottom
                                                 q Return to main menu
```

LifeLines - Two Person Browse Screen

e Edit top person.

Edit the top person's record. LifeLines writes the record to a file, and puts you in the screen editor to edit the file. When you return from the editor, LifeLines asks you to confirm the update; the person is changed only if you do so.

t Browse to top.

Switch to the person display with the top person as current person.

f Browse top father.

Replace the top person with his/her father.

m Browse top mother.

Replace the top person with his/her mother.

s Browse top spouse/s.

Replace the top person with his/her spouse. If the person has more than one spouse, LifeLines asks you to identify one.

c Browse top children.

Replace the top person with one of his/her children. If the person has more than one child, LifeLines asks you to identify the one.

b Browse to persons.

Browse to a new person or list of persons. LifeLines asks you to identify a new person or persons by name, key or list name, and then does as described in the section on identifying a person.

d Copy top to bottom.

Copy the top person into the bottom person. A new person is not created; the same person is displayed twice.

a Add family.

Create a new family record; LifeLines assumes the two displayed persons are to become the spouses/parents in the new family; they must be of opposite sex.

j Merge bottom to top.

Merge the bottom person into the top person. LifeLines combines the two person records and places you in the screen editor to edit the combined record. When you are done, if you confirm the operation, LifeLines removes the bottom person from the database, and the top person is given the combined record. See the section on merging.

x Switch top/bottom.

Swap the two persons in the display.

q Return to main menu.

Return to the LifeLines main menu.

TANDEM FAMILY BROWSE MODE

The tandem family browse screen displays information about two families. Its main use it to support the family merging operation. The top two panels provide information about the two families you are browsing, and the bottom panel holds the menu of available commands. For example:

```
father: Thomas Trask WETMORE IV (1)
born: 18 December 1949, New London, New London, Connecticut
mother: Luann Frances GRENDA (2)
born: 10 July 1949, Pittsburgh, Allegheny, Pennsylvania
married: 1 August 1970, Governors Island, New York, New York
child: Anna Vivian WETMORE, b. 1974, Alaska (3)

father: Thomas Trask WETMORE III (6)
born: 26 October 1925, New London, New London, Connecticut
wife: Joan Marie Hancock (7)
born: 6 June 1928, New London, New London, Connecticut
married: 5 February 1949, New London, New London, Connecticut
child: Thomas Trask WETMORE IV, b. 1949, Conn. (1)

Please Choose an operation: (pg 1/3)
e Edit top person m Browse to mothers )b Scroll bottom down
t Browse to top (t Scroll top up (( Scroll both up
b Browse to bottom )t Scroll top down ? Other menu choices
f Browse to fathers (b Scroll bottom up q Return to main menu
```

LifeLines -- Two Family Browse Screen (* toggles menu)

e Edit top family.

This command lets you edit the top family's record. LifeLines writes the record into a file, and then puts you into an editor to edit that information. When you return from the editor, LifeLines asks you whether you are sure you want to update the family in the database. The family is changed only if you answer yes.

t Browse to top.

Change to the family browse screen with the top family the current family.

b Browse to bottom.

Change to the single family browse screen with the bottom family the current family.

f Browse to fathers.

Change to the tandem person screen with the fathers of the two families as the two persons.

m Browse to mothers.

Change to the tandem person screen with the mothers of the two families as the two persons.

(t Scroll top up. **TODO**)t Scroll top down. **TODO** (b Scroll bottom up. **TODO**)b Scroll bottom down. **TODO** ((Scroll both up. **TODO**)) Scroll both down. **TODO** # Toggle childnos. **TODO** (1-9) Browse to child. **TODO** j Merge bottom to top. Merge the bottom family into the top family. LifeLines combines the two family

records and places you in the screen editor to edit the combined record. When you are done, if you confirm the operation, LifeLines deletes the bottom family from the database, and the top family is given the combined record. See the section on merging.

x Switch top/bottom.

Swap the two families in the display.

[There are some more miscellaneous commands available on the menus.]

q Return to main menu.

Return to the LifeLines main menu.

PEDIGREE BROWSE MODE

The pedigree browse screen displays a four-generation pedigree for the current person. The top panel holds the pedigree, and the bottom panel holds the menu of available commands. For example:

```
John WETMORE [1755-1848] (32)
Daniel Van Cott WETMORE [1791-1881] (41)
Anna VAN COTT [1757-1802] (33)

Daniel Lorenzo WETMORE [1821-1903] (48)
Thomas TRASK [-1836] (81)
Hannah TRASK [1797-1829] (46)
Susannah PORTER [1754-] (82)

Thomas Trask WETMORE Sr [1866-1947] (25)
Samuel DOTY [1759-] (501)
Samuel DOTY [1787-] (74)
Hephzibah PORTER [1764-1853] (502)

Mary Ann DOTY [1827-1897] (59)
Nathan SAVERY [1748-1826] (510)
Lydia SAVERY [1806-] (75)
Deidamia SABEAN [1765-1845] (511)
```

```
Please choose an operation:
e Edit the person m Browse to mother g Browse to family
i Browse to person s Browse to spouse/s b Browse to persons
f Browse to father c Browse to children q Return to main menu
```

LifeLines - Pedigree Browse Mode

e Edit the person.

Edit the current person.

i Browse to person.

Change to the person display mode with the current person.

f Browse to father.

Browse to the father of the current person, shifting the pedigree one generation back. If the father is not in the database, there is no change.

m Browse to mother.

Browse to the mother of the current person, shifting the pedigree one generation back. If the mother is not in the database, there is no change.

s Browse to spouse/s.

Browse to a spouse of the current person, shifting the display to the pedigree of that person. If the current person has more than one spouse, LifeLines asks you to identify the spouse; if the person has no spouse there is no change.

c Browse to children.

Browse to a child of the current person, shifting the pedigree one generation forward. If the current person has more than one child, LifeLines asks you to identify the child; if the person has no children there is no change.

g Browse to family.

Change to the family display; the family will be the one that the current person belongs to as spouse or parent. If there are more than one, LifeLines asks you to identify the proper one.

b Browse to persons.

Browse to another person or list of persons; if you identify a single person the display remains in the pedigree display; if you identify more than one person the display changes to the list browse mode.

q Return to main menu.

Leave the pedigree browsing mode and return to the main menu.

ADD OPERATION

If you choose the add operation from the main menu, LifeLines displays the add menu:

```
What do you want to add?

p Person - add new person to the database
f Family - create family record from one or two spouses
c Child - add a child to an existing family
s Spouse - add a spouse to an existing family
q Quit - return to the previous menu
```

These operations work in a straightforward way. LifeLines asks you the necessary questions, and lets you cancel at any time. The operations provided by this menu are also available from the browsing modes, and are often easier to perform there.

DELETE OPERATION

If you choose the delete operation at the main menu, LifeLines displays the delete menu:

```
What do you want to delete?

c Child - remove a child from his/her family
s Spouse - remove a spouse from a family
p Person - remove a person completely
q Quit - return to the previous menu
```

These operations also work in a straightforward way. LifeLines asks you the necessary questions and lets you cancel at any time.

You may also remove a child from his/her family, or remove a spouse/parent from his/her family, from the person browsing mode. In both cases, only a relationship is removed, not a person. On the other hand, the delete menu must be used if you want to completely remove a person from the database; this cannot be done from the browsing mode.

There is no special operation for removing a family record. LifeLines silently removes any family record that has no parent or child associated with it.

CHARACTER TRANSLATION

If you choose the modify character translation tables operation from the main menu, LifeLines displays the character translation menu:

```
Which character mapping do you want to edit?

e Editor to Internal mapping

m Internal to Editor mapping

i GEDCOM to Internal mapping

x Internal to GEDCOM mapping

d Internal to Display mapping

r Internal to Report mapping

q Return to main menu
```

LifeLines has little built-in knowledge of character codes. If you use 7-bit ASCII characters you will not encounter problems. However, many European and other languages require additional characters, and there are many 8-bit and other schemes for encoding those characters. LifeLines knows about none of them. However, LifeLines provides a number of character translation features you can use to manage character translation.

LifeLines provides facilities for mapping between characters whenever a data record changes form. LifeLines supports four forms:

internal

for records in the database

editor

for records being edited

display

for records being displayed

report

for records written to output file

When converting text from one form to another LifeLines normally does not convert characters codes. You may, however, override this default behavior by creating translation tables that LifeLines will use when converting between forms. There are six translation tables you may define. The following table shows the six tables and describes when they are applied:

internal to editor

when converting from internal, database form to editor form

editor to internal

when converting from editor form back to internal, database form

GEDCOM to internal

when reading GEDCOM input records and writing them to database

internal to GEDCOM

when writing internal database records to external GEDCOM file

internal to display

when displaying a record in a browsing mode display screen

internal to report

when writing internal database records to external report file

After you select a translation table you are placed in the editor to edit the table. Translation tables are made up of lines that look like:

pattern pattern

where a tab separates the patterns. Each pattern is an arbitrary sequence of verbatim ASCII characters and escape sequences. Translation occurs by finding all occurrences that match left patterns and replacing them with the corresponding right patterns.

There are five escape mechanisms used in patterns:

#nnn

nnn is a decimal character value

\$hh

hh is a hexadecimal character value

\#

represents the # character

\\$

represents the \$ character

1/

represents the \ character

The character translation feature is not fully tested, and not all translations are currently implemented.

MISCELLANEOUS UTILITIES

If you choose the miscellaneous utilities operation, LifeLines displays the utilities menu:

```
What utility do you want to perform?

s Save the database in a GEDCOM file
r Read in data from a GEDCOM file
k Find a person's key value
i Identify a person from key value
d Show database statistics
m Show memory statistics
e Edit the place abbreviation file
o Edit the user options file
q Return to the main menu
```

s Save the database in a GEDCOM file.

This command saves the complete LifeLines database in a GEDCOM file. All person, family, event, source and user-defined records are stored. This command may be used to periodically back up your database. When you use this command, LifeLines asks you for the name of the file. If you have defined the LLARCHIVE shell variable, LifeLines will store the file in the directory named in the variable.

r Read in data from a GEDCOM file.

This command allows you restore a complete database from a GEDCOM file. When you select this command, LifeLines asks you for the name of the GEDCOM file. This command can also be used to import data from a GEDCOM file to an existing database. When LifeLines performs this command, it first reads the entire GEDCOM file and checks it for validity. If there are problems in the file, LifeLines describes them, writing them to the file err.log, and does not add any records to the database. If there are no problems, LifeLines adds all the records found in the file to the database (only header and trailer records are not stored in the database).

k Find a person's key value.

This command finds the internal key value of a person.

i Identify a person from key value.

This command identifies the person that has a particular internal key value.

d Show database statistics.

This command summarizes the contents of the current database. It displays the number of person, family, source, event and other records in the database.

m Show memory statistics.

This command is used by the author for debugging.

e Edit the place abbreviation file.

This command allows you to edit the place abbreviations file. This file defines the abbreviations that are used by LifeLines when it creates lists of persons for you to select from. Each line in the file has the format:

```
word:
abbr
```

where word is a word to be abbreviated, and abbr is its abbreviation. The word and its abbreviation are separated by a colon. For example:

Example 1-9. Example of using abbreviations

Connecticut:Conn. Massachusetts:Mass. Nova Scotia:N.S.

When LifeLines constructs lists of persons for you to select from, it looks up the last component of certain *PLAC* lines in this file, and if it finds that component, replaces it with its abbreviation.

o Edit the user options file.

This command allows you to edit the user options file. The user options file is a record kept in the database that holds user selectable options. Each option has a name and a string value. Each line in the options file has the format:

option=value

where option is the name of an option and value is the option's string value. If the value is more than one line long, then the last character in each non-final line must be a backslash. The escapes \n and \t are also recognized in version 3.0.7 and better (to represent a carriage return and a tab, respectively). These (\n and \t) are primarily for use in custom record templates. In version 3.0.14 there are 39 options. Note that all of these may also be specified in the configuration file, to apply to all databases, but if specified in both places, the entry in the database (user options table) governs. For more information, see the sample configuration file; each option is preceded by a brief explanation.

Following is a list of the options, current as version 3.0.7.

INDIREC

Person record edit template

EVENREC

Event record edit template

FAMRECBODY

Family record body edit template (NB: Unlike the others, this should not include the 0 level FAM tag.)

SOURREC

Source record edit template

OTHRREC

Other record edit template

codeset

String denoting code set in use in data. Special handling is provided for utf-8, which may be entered as "UTF-8", "utf-8", or "65001". (This is actually a code set issue and not a character set issue, as this only enables the processing of multibyte sequences, without regard to their semantic assignments).

HDR_GEDC

String containing the GEDC block for the header record when exporting GED-COM.

HDR_CHAR

String containing the CHAR block for the header record when exporting GED-COM.

HDR_SUBM

String containing the SUBM block for the header record when exporting GED-COM.

For example if you would like to replace the default person record template with the following:

Example 1-10. Example of replacing the default person record template

```
0 INDI
1 NAME //
1 SEX
```

you would edit the user option file to contain:

Example 1-11. Example of replaced default person record template

```
INDIREC=0 INDI\
1 NAME //\
1 SEX
```

or, using the \n escape so as to keep the entry on one line:

Example 1-12. Example of replaced single line default person record template

INDIREC=0 INDI\n1 NAME //\n1 SEX

q Return to main menu.

This command returns you to the main menu.

HANDLING SOURCE, EVENT AND USER-DEFINED RECORDS

LifeLines supports source, event and other, user-defined record types. You can access these features in two ways: either through the x operation from the main menu, or via commands in the individual and family browse screens. The first approach might be most convenient when you are solely working with these record types. The second makes it easier to work with source, event and user-defined records in parallel with your person and family records; this can be useful for instance when you want to create references from your person and family record to your source, event and user defined records as you create them, and to view and edit records that you have referenced from within a person or family record.

Using the first of these two possibilities LifeLines displays the following menu:

What activity do you want to perform?

- Browse source records
- e Browse event records
- x Browse other records
- 1 Add a source record to the database
- 2 Edit source record from the database
- 3 Add an event record to the database
- 4 Edit event record from the database
- 5 Add an other record to the database 6 Edit other record from the database
- q Return to main menu

Using the second variant (from the person and family browse screens), the following six commands are available. The first three are described alongside with their counterparts in the x menu (they do mostly, but not entirely, the same things); the last three are described separately:

```
%s Add source
%e Add event
%o Add other

$s List sources
$n List notes
$$ List references
```

The handling of source, event and user-defined records in LifeLines is still in development. For example, sources cannot yet be searched by REFN or be deleted.

s Browse source records.

This will bring up a list of all source records by number, showing REFN, title, and author for each. A record may be selected from this list to edit.

e Browse event records.

This will bring up a list of all event records by number. As of yet this does not display any information about each event. (Suggestions as to how to summarize events are welcome). A record may be selected from this list to edit.

x Browse other records.

This will bring up a list of all other records by number, showing the 0 level line as summary. A record may be selected from this list to edit.

1 Add a source record to the database.

This operation (or alternatively %s from the person, family or auxiliary browse screens) is used to add a new source record to the database. LifeLines creates a template source and puts you in the screen editor to edit the template. The default template is:

```
0 SOUR
1 REFN
1 TITL Title
1 AUTH Author
```

Do not change the *O SOUR* line. Otherwise you may edit this record any way you like. The *1 REFN* line is a special line you can use to give the source a symbolic name that can be used in other records to refer to the source record. See the section on using *REFN* values. Because many sources have a title and an author, the default template has these lines. You may adjust the source template via the SOURREC user option (either at the database level, via the user options, or globally, via the configuration file). Here is how I recorded one of the sources in my database:

Example 1-13. Example of a source record

```
0 SOUR
1 REFN jcw
1 TITL The Wetmore Family of America, and its Collateral Branches: with
2 CONT Genealogical, Biographical, and Historical Notices
1 AUTH James Carnahan Wetmore
1 PUBL
2 DATE 1861
2 PLAC Albany, New York
2 INST Munsell and Rowland
2 ADDR 78 State Street
```

The add source command in the x menu is equivalent to the %s command available in the person or family browse screen, in terms of entering the source record; after saving the source record though, there is one significant difference, in that that you then are presented with the following prompt (also, the key value of the new record is displayed in the status bar at this point):

```
Please choose from the following options:
1: Insert xref automatically at bottom of current record.
2: Edit current record now to add xref manually.
```

```
3: Browse new record (without adding xref).4: Return to current record (without adding xref).Commands: j Move down k Move up i Select g Ouit
```

The four options perform the following actions:

- 1: LifeLines adds a reference to the new source record at the bottom of the person or family record that was visible in the display screen when you prompted LifeLines to create the new source record.
- 2: LifeLines will open the person or family record that was visible in the display screen when you prompted LifeLines to create the new source record, so that you can manually enter a reference to the newly created source record (perhaps as a source reference to an event that you are planning to add).
- 3: LifeLines lets you browse (and optionally reopen for editing) your newly added source record.
- 4: You are returned to the person or family record that was visible in the display screen when you prompted LifeLines to create the new source record. No reference is added to the new record.

2 Edit source record from the database.

Use this operation to edit an existing source record already in the database. When you select this operation LifeLines asks you to identify a source:

```
Which source record do you want to edit? enter key or refn:
```

Identify a source by entering its key value, with or without the leading S, or by entering its *REFN* value. LifeLines retrieves the record and puts you in the editor with the record.

3 Add an event record to the database.

This operation (or alternatively **%e** from the person, family or auxiliary browse screens) adds a new event record to the database. LifeLines creates a template event and puts you in the screen editor to edit the template. The default template is:

```
0 EVEN
1 REFN
1 DATE
1 PLAC
1 INDI
2 NAME
2 ROLE
1 SOUR
```

You may adjust the event template via the EVENREC user option (either at the database level, via the user options, or globally, via the configuration file).

Do not change the *O EVEN* line. Otherwise you may edit this record any way you like. The *1 REFN* line allows you to give this event a symbolic name you can use when you want to refer to this event from other records. See the section on using *REFN* values. The default template suggests that an event has a

date, a place, and refers to persons in roles with respect to the event. There is far less experience with event-based GEDCOM than there is with simple person and family GEDCOM. You may even be wondering why you would need event records when you can simply tuck events away in person and family records. This is a topic that may get covered in an appendix.

The add event command in the x menu is equivalent to the **%e** command available in the person or family browse screen, in terms of entering the event record; after saving the event record though, there is one significant difference, in that that you then are presented with the following prompt (also, the key value of the new record is displayed in the status bar at this point):

Please choose from the following options:

- 1: Insert xref automatically at bottom of current record.
- 2: Edit current record now to add xref manually.
- 3: Browse new record (without adding xref).
- 4: Return to current record (without adding xref).

Commands: j Move down k Move up i Select q Quit

The four options perform the following actions:

- 1: LifeLines adds a reference to the new event record at the bottom of the person or family record that was visible in the display screen when you prompted LifeLines to create the new event record.
- 2: LifeLines will open the person or family record that was visible in the display screen when you prompted LifeLines to create the new event record, so that you can manually enter a reference to the newly created event record.
- 3: LifeLines lets you browse (and optionally reopen for editing) your newly added event record.
- 4: You are returned to the person or family record that was visible in the display screen when you prompted LifeLines to create the new event record. No reference is added to the new record.

4 Edit event record from the database.

Use this operation to edit an existing event record from the database. When you select this operation LifeLines asks you to identify an event:

```
Which event record do you want to edit? enter key or refn:
```

You identify a event by entering its key value, with or without the leading E, or by entering its REFN value. LifeLines retrieves the record and places you in the screen editor with the record.

5 Add an other record to the database.

This operation (or alternatively **%o** from the person, family or auxiliary browse screens) adds a new user-defined record to the database. LifeLines creates a template and puts you in the screen editor to edit the template. The default template is

```
0 XXXX
```

1 REFN

Replace XXXX with the tag string you select for the type of the new record. You are free to choose any tag value except INDI, FAM, SOUR and EVEN. For example, if you keep record information about the ships that your North American immigrant ancestors arrived on, you would keep records about those ships in your database; the tag SHIP suggests itself for such records. The 1 REFN line allows you to give this record a symbolic name you can use when you want to refer to it from other records. See the section on using REFN values. You may adjust the other template via the OTHRREC user option (either at the database level, via the user options, or globally, via the configuration file).

The add other record command in the x menu is equivalent to the **%o** command available in the person or family browse screen, in terms of entering the other record; after saving the record though, there is one significant difference, in that that you then are presented with the following prompt (also, the key value of the new record is displayed in the status bar at this point):

```
Please choose from the following options:

1: Insert xref automatically at bottom of current record.

2: Edit current record now to add xref manually.

3: Browse new record (without adding xref).

4: Return to current record (without adding xref).

Commands: j Move down k Move up i Select q Quit
```

The four options perform the following actions:

- 1: LifeLines adds a reference to the new other record at the bottom of the person or family record that was visible in the display screen when you prompted LifeLines to create the new other record.
- 2: LifeLines will open the person or family record that was visible in the display screen when you prompted LifeLines to create the new other record, so that you can manually enter a reference to the newly created other record (perhaps as a note reference to an event that you are planning to add).
- 3: LifeLines lets you browse (and optionally reopen for editing) your newly added other record.
- 4: You are returned to the person or family record that was visible in the display screen when you prompted LifeLines to create the new other record. No reference is added to the new record.

6 Edit other record from the database.

Use this operation to edit an existing user-defined record from the database. When you select this operation LifeLines asks you to identify the record:

```
What record do you want to edit? enter key or refn:
```

You identify a record by entering its key value, with or without the leading X, or by entering its *REFN* value. LifeLines retrieves the record and places you in the screen editor with the record.

\$s List sources

This command is available in the person and family browse screens. It will bring up a list of all source records that are referenced within the currently displayed person or family record, by the order they appear in the person/family record,

showing REFN, title, and author for each. A record may be selected from this list to view in the auxiliary browse screen (and optionally be edited from there).

\$n List notes

This command is available in the person and family browse screens. It will bring up a list of all note records that are referenced within the currently displayed person or family record, by the order they appear in the person/family record, showing REFN, title, and author for each. A record may be selected from this list to view in the auxiliary browse screen (and optionally be edited from there).

\$\$ List all references

This command is available in the person and family browse screens. It will bring up a list of all records that are referenced within the currently displayed person or family record, by the order they appear in the person/family record, showing REFN, title, and author for each. A record may be selected from this list to view in the auxiliary browse screen (and optionally be edited from there).

FAMILY STRUCTURE AND MERGING PERSONS AND FAMILIES

LifeLines 3.0.2 has relaxed most of restrictions on family structure that were imposed by earlier versions. For example, a family record may have more than one parent/spouse of the same sex; a person may be a child in more than family. This is a controversial issue. Some users insist that family relationships should imply biological relatedness, and that all other relationships should be handled by different means. Others insist that non-traditional families (any number of parents/spouses of any sex) should be allowed, and that children can be members of more than one family (eg, natural family and adoptive family). LifeLines no longer takes a position on this matter; you are free to set up families any way you like; the operations that add spouses and children to families no longer check for non-traditional arrangements. It is possible that a future release will include a user option to either disallow or to ask for confirmation about non-traditional relationships.

LifeLines provides features for merging persons together and for merging families together. The person merging feature is accessed from the tandem person browse mode, and the family merging feature is accessed from the tandem family browse mode. You browse to the two persons or families you want to merge and then use the j command. Merging is necessary when you discover that two or more person records, or two or more family records, represent the same person or family, respectively.

Versions of LifeLines prior to 3.0.2 required that persons and families meet certain criteria before they could be merged. The criteria ensured that the merged persons and families would still meet traditional family structuring rules. With the relaxation of the structuring rules, restrictions on merging have also been removed. It is now possible to create non-traditional relationships by merging traditional persons and/or families. For example, if you merge two persons that happen to be children in two different families, the merged person will be a child in both families. If you want to maintain only traditional relationships in your database you may have to makes further to changes to relationships after you complete a merge operation.

LINKING RECORDS TOGETHER AND USING THE REFN FEATURE

Records in a LifeLines database may refer to other records via cross-reference links. The lineage-linked references are maintained directly by LifeLines through operations found in the browsing mode menus. These references are the links from a person to families (1 FAMC and 1 FAMS), and the links from a family to persons (1 HUSB, 1 WIFE and 1 CHIL). Because LifeLines maintains these links you are not allowed to change these lines when you are editing records. There are a couple of seeming exceptions to this rule. For example, you may change the order of 1 CHIL lines in a family record in order to change the order of children in a family, and you may change the order of 1 FAMS lines in a person record to change the order of families the person was a spouse or parent in. These operations are allowed because they don't affect which person records refer to which family records and vice versa.

Besides the lineage-links that are maintained by LifeLines, you may place your own links in records. Probably the most common example of this is referring events within a person record to the record of the information source for the event. For example:

Example 1-14. Example of referring events from a person record

```
0 @I23@ INDI
1 NAME Thomas/Whitmore/
1 BIRT
2 DATE about 1615
2 PLAC England
2 SOUR @S3@
...
0 @S3@ SOUR
1 REFN cat
1 TITL New England Marriages Prior to 1700
1 AUTH Clarence Almon Torrey
...
```

The 2 SOUR @S3@ line in the person record refers to the source record. LifeLines allows any specific structure within a record (in this case a birth event) to refer to another record. It is not possible to refer to a specific location within another record, though this may be supported eventually.

This example implies that when linking one record to another you must know the key of the target record (S3 in the example). This is not desirable because internal record keys may change when the records are exported from one database or imported to another.

Because internal key values are not permanent, LifeLines allows you to assign a permanent user-defined key to any record in the database using the 1 REFN line. The value of this line is a string that you choose as your permanent key value for the record. When adding a link to a record that has a user REFN key value, you may use that value instead of the internal key value. For example, when adding the person in the previous example you could edit the new record as follows:

Example 1-15. Example of adding a new person

```
0 INDI
1 NAME Thomas/Whitmore/
1 BIRT
2 DATE about 1615
2 PLAC England
2 SOUR <cat>
```

Instead of using the actual key value of the source, S3, the REFN value cat was used. The REFN value must be enclosed by angle brackets when used this way. LifeLines automatically replaces the REFN link with the proper internal key value when the record is stored in the database.

The *REFN* value may also be used when searching for person, source, event and user-defined records. You should not add more than one *REFN* line to a record, and every *REFN* value should be unique.

Notes

- 1. http://lifelines.sourceforge.net/
- 2. mailto:marc@nozell.com
- 3. ftp://ftp.cac.psu.edu
- 4. ftp://hoth.stsci.edu