

# **Infocom**

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# Chapter 1

## Infocom

### 1.1 Infocom 2.01

```
InfoTaskForce Infocom Interpreter Version 4.01  
Amiga Infocom 2.01 by David Kinder
```

Fed up of the rather crude official Infocom interpreters? Annoyed that "The Lost Treasures of Infocom II" wasn't released for the Amiga? Then read on...

```
Introduction  
  
Starting Infocom  
  
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```

### 1.2 Introduction

There have been several ports of Infocom interpreters to the Amiga, but none of this program. The interpreter supports v1, v2, v3 (Zork1 to Stationfall),

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v4 (Trinity, Bureaucracy, etc.), v5 (Sherlock, Beyond Zork, etc.), and games produced by the compiler Inform, including the v8 format. With this interpreter you can play ALL the games in the 3.5" disk LToI2 package for the IBM PC, by copying the datafiles with CrossDOS or similar, then just running this interpreter. This program requires AmigaDOS 2.04 or higher to run.

As of 1.40, the interpreter supports all the features of Infocom data files relevant to the Amiga, including the "Undo" command (in such games as choose to implement it).

As of 2.00, the interpreter supports the use of proportional fonts for all games.

### 1.3 Starting Infocom

Infocom can be started with a game file by clicking on the Infocom icon and then shift double clicking on the game file icon. Alternatively, if the game file's default tool has been set to where Infocom is, double clicking on the game file icon will load Infocom and run the game.

The following can be added to the ToolTypes field of the Infocom icon (not game file icons):

```

ATTRIBUTES - equivalent to the -a command line switch
PRELOAD - equivalent to the -l command line switch
NOPAGING - equivalent to the -p command line switch
TRANSFER - equivalent to the -t command line switch
BZCOLOURS - use "Beyond Zork" colour scheme with the graphics file.
             The synonym "BZCOLORS" is also accepted. Equivalent to
             the -z command line switch.
```

If the Infocom icon is double clicked (i.e. no game file selected), Infocom scans the assignment INFOCOM: (and its sub-directories) for valid Infocom game files. To speed up scanning, files are ignored unless their name matches the AmigaDOS pattern (~(#?.#?)|#?.(dat#?|z?)). This means that only files with no extension, or files ending with .data (Amiga story files) or .dat (PC story files) or .z3, .z4, .z5 or .z8 (files produced by the Infocom format compiler Inform) are scanned.

Using the

InfoPrefs

editor, further directories to be searched can be defined, and also directories to be ignored if the scan reaches them. If Infocom cannot find one of the further directories specified, the directory will not be searched and no "Please Insert Volume..." requester will appear. Whether INFOCOM: is searched at all before these other directories or not, and whether or not a "Please Insert Volume..." requester appears if INFOCOM: cannot be found can be defined in InfoPrefs.

After searching is complete, a list of all the games found will appear. The action taken by Infocom on finding multiple copies of the same game can be altered in InfoPrefs. The default action is to display all games that have been found. If more than one version of the game is found, the serial number

will be displayed in brackets after the game name. Other available actions are to only display different versions or only to display the first found version of each game.

Click on the game you want to play and it will load and run. If you click on a game while holding down the shift key a requester will appear indicating the name of the game, its release and serial numbers, and the full path to the game file. At the bottom of this list is a "Select with File Requester" gadget. Clicking on this gadget opens a file requester with which you can select the game to play. This list can also be made to appear by starting Infocom from the Shell with the `-w` switch. Note that this must be the only argument, i.e.

```
Infocom -w
```

is the only valid use of this switch. Game files can also be loaded by dropping their icon from Workbench onto the window.

## 1.4 Using Infocom

If Infocom opens on its own screen, the screen clones the ←  
Workbench screen  
to use its size, resolution and fonts (unless selections have been made for these in

```
InfoPrefs  
) . If possible, the Infocom screen is public, with the  
name "Infocom".
```

Pressing the Help key gives the game currently playing, its author and difficulty level (where available), and the screen type (public, private, etc.).

All games can be played using a proportional font (specified in InfoPrefs). If no font is specified, the fixed width window font will be used. If a proportional font is used, the text may be right justified, if desired.

Left and right margins can be used (set in InfoPrefs) so that the text is not flush with the screen border. This can be useful to make the text more readable if you are using a program to give screens black borders. The status line of most Infocom games will extend across the screen regardless of the margin settings.

The current line can be edited using backspace, delete, and the left and right cursor keys. The shifted cursor keys move the cursor to the beginning and end of the current line, respectively.

Input lines have a history buffer. Use cursor up and down to scroll through the buffer, and shift cursor up and down to go to the top and bottom of the buffer, respectively.

Holding down the right mouse button accesses the menus:

```
Project Menu
```

```
Help           Brings up this AmigaGuide help file.
```

About            Opens the help requester (the same as that obtained by pressing the Help key).

Quit             Exits Infocom without going through the usual "Are you sure?" prompts.

Game Menu        Provides a shortcut for typing in often used file commands in the game, e.g. "Save".

Command Menu    Provides a shortcut for typing in often used game commands, e.g. "Look".

Options Menu

Monitor Attributes    Determines whether the testing of attributes in the game is shown. This can be turned on initially with the -a flag at startup.

Monitor Transfers    Determines whether the transfer of objects in the game is shown. This can be turned on initially with the -t flag at startup.

Paging            Determines whether text display is paused every screenfull and a [MORE] prompt shown. This can be turned off initially with the -p flag at startup.

Tandy Flag        Some early Infocom games were licensed to Tandy Corp. Turning on this flag causes slight changes to the text in some early games (most obviously, an extra line appears in the version information).

## 1.5 File operations

If asl.library is available, Infocom uses the file requester to prompt for any file names required. For Save and Restore operations, the default name is the name of data file, minus any extensions and with ".Save" appended. If Infocom is running on the Workbench screen, saved game files can also be loaded by dropping their icon onto the window.

If the project icon Icon.Data is present in the same directory as Infocom, saved game files have this icon when Infocom is started from Workbench.

The Script command causes a window to open. In the window the user can choose the file to which the script should be sent by either typing it into the string gadget, or click on the "Req" gadget, which causes a file requester to open. This allows the script to be sent to a device that does not appear in the file requester, e.g. PRT:.. In addition,

InfoPrefs

may be

used to define a button gadget which will appear to the right of the string gadget. Clicking on this button sends the script to the device (e.g. PRT:) or file defined by the button name.

## 1.6 Support for specific games

### 1) "The Lurking Horror"

Sound files are supported, as distributed with the Amiga release. Copy all the sound files to the subdirectory "Sound" in the directory containing the "Lurking Horror" data file, e.g.

```
DataFiles/LurkingHorror  <- data file
DataFiles/Sound/s#?.dat   <- sound files
```

Alternatively, the sound directory may be called "LurkingHorrorSound". This avoids conflicts with the Sherlock sound files (see (2)). Note that not all "Lurking Horror" data files contain the sound opcodes (especially those released for the PC), so to get the sound effects you need the correct data file as well as the sound files.

### 2) "Sherlock"

Sound files from both the Amiga and Macintosh releases are supported. As with the "Lurking Horror" files, copy the sound files to a subdirectory called either "Sound" or "SherlockSound". As above, not all "Sherlock" data files contain sound opcodes.

### 3) "Border Zone"

"Border Zone" implements an internal clock which is constantly running, regardless of whether you type in commands or not; thus events take place without the user doing anything.

### 4) "Beyond Zork"

Infocom can use the graphics file "Graphics.data", which was part of the original Amiga release of "Beyond Zork", and was also included in the Amiga version of "The Lost Treasures of Infocom I". Copy the file to where the "Beyond Zork" data file is kept. The file may be renamed to "BeyondZork.gfx". Use of the graphics file in this manner requires that the window text is an 8 $\times$ 8 non-proportional font. If the font does not match these characteristics, then topaz/8 will be used instead.

Alternatively, the graphics file (which is a standard Amiga font file) can be stored as a font in the "Beyond Zork" directory. To do this, open a Shell window and go to the directory containing the "Beyond Zork" data file and the "Graphics.data" file, then type the following:

```
MakeDir fonts
MakeDir fonts/BeyondZork
Copy Graphics.data fonts/BeyondZork/8
Assign FONTS: fonts
SYS:System/FixFonts
```

Then reboot your Amiga. Now if the window text is not 8 $\times$ 8, the graphics data file will be scaled by the system to the correct size. The font may also be put in the standard FONTS: directory. Note that Beyond Zork does not support proportional fonts.

---

If the graphics file is present, the interpreter can use the "Beyond Zork" colour scheme. This feature is activated by the `-z` command line switch or the "BZCOLOUR" icon tooltype, or by

```
InfoPrefs
. The colour
```

scheme can then be changed in the game with the "color" command.

The cursor arrow keys can be used to select items in the startup menus. Also, if a location description is too long for the window, hold down the Alt key and use cursor up and down to scroll the description.

The function keys are preloaded with commands, which can be changed from within the game with the "define" command.

The numeric keypad and the mouse can be used to select a direction. To use the mouse, click in the map to indicate the direction you wish to move in.

## 1.7 Special commands

The debugging commands present in some games are supported. These are `#record`, `#unrecord` and `#command` (`#reco`, `#unre` and `#comm` in version 3 games).

`#record` prompts for a file name, to which all user input is sent until the command `#unrecord` is issued. This recording of the user's actions can be replayed with `#command`, which prompts for a file name to play back.

Also, the command "Undo" (present in some version 5 games), which takes back the player's last move, is supported.

## 1.8 Infocom.games file

The list of games recognized by Infocom can be extended using the "Infocom.games" file, which can be in the startup directory, `S:`, or `PROGDIR:` (the directory where Infocom itself is stored). The format of this file is best shown by an example:

```
[Zork I: The Great Underground Empire]  <- The game name enclosed in [].
Author=Marc Blank & Dave Lebling  <- The game's author, optional.
25 / 820515          <- A list of the release and
28 / 821013          serial numbers for each version
30 / 830330          of the game (Which can be found
75 / 830929          for any game file using the -h
76 / 840509          option.) as the release number,
88 / 840726          followed by a / and then the
52 / 871125          serial number.
```

```
[Zork II: The Wizard of Frobozz]
```

... and so on.

Now any game included in this file will appear in the initial game list

(provided the game is present) and it's name and author will appear in the Help key requester.

## 1.9 Using standard i/o

Infocom uses standard input/output if the `-c` switch is specified at the Shell. This allows Infocom to e.g. take input from a file, or to be used over a network. In the latter case, the output terminal must support ANSI 3.64 character sequences. Infocom will exit in this mode if it receives a CTRL-C break.

The default size of the window and colour of the text can be changed by specifying the width, height and pen number after `"-c"`, each separated by a forward slash, e.g.

```
Infocom -c70/20/2 Zork1
```

starts "Zork I" in a character window of width 70 and height 20, with all text using pen 2. Note that the values are the size of the window Infocom expects - the actual output window of your terminal or Shell must be at least as big as these values.

If one or more of the values are not specified, the appropriate default is used, so e.g.

```
Infocom -c70/20 Zork1 or  
Infocom -c//2 Zork1 is valid.
```

If you use a CON: window for input, then you will notice functions which use an individual key press (e.g. scrolling up and down the list of hints in "Sherlock") behave slightly differently. CON: windows only pass input to the program after return is pressed, so if the program is expecting single key presses, entering 'q' and pressing return causes the program to see a 'q' character followed by a return character. If, say, you wish the program to see two 'q' characters in a row, to e.g. quit out of a hint screen after reading a hint, enter 'qq' followed by return.

For use over e.g. a network, Infocom can restrict the user's actions. This is done by specifying a filename to be used for loading and saving games, in conjunction with the `-c` option. The name of the file to use for loading and saving should be given as the third argument, e.g.

```
Infocom -c Zork1 Saved:Zork1.Save
```

This also disables any file writing functions other than the loading and saving of games, and also stops CTRL-C exiting Infocom. If more than one saved game is required, the `-u` switch can be used, e.g.

```
Infocom -cu Zork1 Saved:SavedGame
```

In this case when saving or restoring the user will be prompted for a number in the range 0 to 9, and the number will be appended onto the filename, i.e. if in the above example the user entered 2, then the filename would be

```
Saved:SavedGame2
```

---

All found saved games will be listed by number before the user is prompted.

To further restrict the user, the `-m` switch can be used to set a time limit for any user playing a game. The format for `-m` is the time allowed in minutes, optionally followed by one or two times at which the user should be warned of the time remaining, e.g.

```
Infocom -c/70/20m60/5/1 Zork1 Saved:Zork1.Save
```

allows the user to play Zork1 for sixty minutes, with warnings when there are five minutes and one minute left. Both warnings are optional, so both

```
Infocom -cm60 Zork1 Saved:Zork1.Save
Infocom -cm60/5 Zork1 Saved:Zork1.Save
```

are valid.

If you wish CTRL-C to exit Infocom in all of the above circumstances, use the `-b` switch. This does not affect anything else.

## 1.10 InfoPrefs

Many options in the interpreter can be defined using the external configuration editor, `InfoPrefs`, which requires that either `asl.library v38` or higher or `reqtools.library v38` or higher is in `LIBS:.` By default, `reqtools.library` is only used if `asl.library v38+` is not available, but this can be over-ridden with the icon tooltype `REQTOOLS`, or by the Shell option of the same name (i.e. `l> InfoPrefs REQTOOLS`). The configuration is stored in the environment variable `"Infocom.prefs"`, which is read in by Infocom at startup. `InfoPrefs` allows you to change:

- Beyond Zork Colours - If checked, "Beyond Zork" uses its custom colour scheme.
- Preload Data Files - If checked, the whole data file is loaded at the start, rather than only needed sections being loaded.
- Use Workbench Screen - If checked, the interpreter opens a Workbench window rather than its own screen.
- Custom Window Size - If checked, and if "Use Workbench Screen" checked, then the Workbench window size is taken from the values entered below rather than chosen by the program.
- Window Sizing Gadget - If checked, then if Infocom is running in a Workbench window, a sizing gadget appears to allow changing of the width and height of the window during play. Note that reducing the window size may cause some games to become confused.
- Justify Prop. Text - Enabled right justification of text displayed with a proportional font.
- Left Edge, Top Edge, Width, Height - Determine the dimensions (in pixels) of the Workbench window used by Infocom if both the above gadgets are checked.
- L. Margin, R. Margin - The size (in characters) of the left and right margins to be used.

- StdIO Width, Height - The default size (in characters) of the character window to be used in StdIO mode (-c command line option).
- Script Gadget - If a string is entered here, it will appear as a gadget in the script window (for more information, see file operations).
- Screen Font - Opens a font requester from which to choose the screen font to use.
- Screen Colours - Opens a palette requester with which to choose the screen colours. This option requires reqtools.library to work.
- Screen Mode - The mode and depth of the screen Infocom is to open.
- Window Fonts - There are two window fonts - one which may be proportional, and the other which must be fixed. The former is used for most text, while the latter is used for e.g. diagrams. Note that these fonts must have the same height.
- Games List - This causes a new window to open, containing parameters affecting the list of games displayed at startup. The available options are:
- File to be displayed - Choose whether Infocom displays all games found, only different versions of a game, or only the first version of each game.
  - Ask for INFOCOM: - If selected, and the INFOCOM: assignment cannot be resolved, a "Please Insert Volume..." requester will appear. If this is not selected, no such requester will appear.
  - Search INFOCOM: - If selected (this is the default), the assignment INFOCOM: is searched before any directories specified below. If this is not selected, INFOCOM: will not be searched, so that only games in directories specified in the Search ListView will appear in the startup list.
  - Search directories - Allows the selection of directories other than INFOCOM: to be searched for game files. Select "Add" to add a new entry, which can then be edited in the string gadget. Current entries can be edited by clicking on them in the list. The "Del" gadget deletes the current entry, and the "Req" gadget changes the current entry to the directory selected in the file requester which appears.
  - Exclude directories - As above, but allows the selection of directories that are not to be searched. If, in searching directories and sub-directories, Infocom finds a directory named in this list, the directory is not searched. For this reason, entries in this list should not contain device names, i.e.  
  
Games:Zork1 and not e.g. DF0:Zork1

There are also two menus available, "Project" and "Reset". The "Project" menu has an "About" item, to show InfoPrefs' version number, and a "Quit"

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item. The "Reset" menu is used to reset the screen and window parameters, i.e. the chosen values are lost and Infocom will use the system defaults when it is run.

## 1.11 Contacting the author

If you wish to contact me, write to (email if possible):

Internet Email: kinder@teaching.physics.ox.ac.uk  
or david.kinder@physics.ox.ac.uk

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More information and programs relating to Infocom games and text adventures generally can be found at the

I-F Archive

. Text adventures are also

discussed in the Usenet groups rec.games.int-fiction and rec.arts.int-fiction.

Thanks to Christopher Wichura, Julie Brandon, Mark Knibbs, Niels Knoop and everyone else who has sent comments or suggestions.

## 1.12 History

1.00 \* First release.

1.10 \* Added support for icon tooltypes.

- \* If Workbench screen is larger than physical display, Infocom screen is kept to size of physical display.
  - \* Saved games can have icons if "Icon.Data" icon present.
  - \* A "Strike any key to exit." prompt appears if there is text to be read before the game quits.
  - \* Public screen opened if possible.
  - \* Save/Restore uses asl.library if available.
  - \* Better error reporting from Workbench.
  - \* Scripting in "AMFV" fixed.
  - \* Initial game list ignores files with ".#?" extensions except ".data". List now also looks in sub-directories of INFOCOM: for game files.
  - \* Initial game list has gadget to allow file requester to be used to select the game file to load.
  - \* Lines of text longer than the screen are handled better.
  - \* Fixed problems with a Workbench output window appearing if ConMan was running.
  - \* Input text is printed in a different colour to output.
-

- \* Arrow keys now work (as used in "Beyond Zork").
- 1.20 \* Graphics in "Beyond Zork" supported.
- \* Input line history buffer.
  - \* Better input line editing.
  - \* Output routines buffered - text printing is now \*much\* faster.
- 1.30 \* Scripting should now work in all "AMFV" versions.
- \* Debugging commands #record, #unrecord and #command implemented.
  - \* Problems with scripting and line editing fixed.
  - \* Options read from "ENV:Infocom.prefs", which can be edited using the InfoPrefs program.
  - \* "Beyond Zork" now has support for different colour schemes, if the graphics data file is available. Also, the "color" command works correctly.
  - \* The function keys in "Beyond Zork" are now fully supported. The commands on the function keys can be changed in the game with the "define" command.
- 1.40 \* Scanning through input line history is much faster.
- \* The -h option prints more information on version 5 games.
  - \* Updated documentation on version 5 header and data flags.
  - \* The numeric keypad and mouse now work in "Beyond Zork".
  - \* The interpreter can now run in a Workbench window.
  - \* InfoPrefs options extended.
  - \* "Border Zone" internal clock implemented - the game time progresses even without the intervention of the player.
  - \* Improved handling of lines of text longer than the screen.
- 1.45 \* Problem of a "Lurking Horror" data file being incorrectly recognised is now fixed.
- \* Switched compilers from GNU C 2.2.2 to DICE 2.07.56R. The code is now significantly shorter.
  - \* Added standard input/output routines.
  - \* Text can be offset from the screen edges by margins.
  - \* Default screen colours can be set in InfoPrefs.
  - \* New command line switch "-w" to display game files in INFOCOM:.
- 1.50 \* Removed miscellaneous bugs.
- \* Option to define saved game file with -c switch.
  - \* Colour of stdio text can be changed with -c option.
  - \* Defaults accepted in -c argument string.
  - \* Version 3 games can now use proportional fonts for output.
  - \* The version 3 status line extends across the display regardless of any margins set.
- 1.55 \* Status line extends across the display for any Infocom game.
- \* Shift-clicking on a game in the initial list opens a requester with information about the game file.
  - \* The option of defining a saved game name with -c also disables CTRL-C.
  - \* "Infocom.games" file can be used to specify games that Infocom should recognize.
  - \* New options controlling the initial game list, which can be altered from the new "Games List" window in InfoPrefs:
    - \* Other directories to be searched can be defined.
    - \* Directories to be ignored can be defined.
-

- \* List can display all games found, only different versions, or only different games.
  - \* If INFOCOM: is not found, whether or not a "Please Insert Volume..." requester appears can be controlled.
  - \* Fixed some minor problems with version 5 games produced with the Infocom format compiler "Inform".
- 1.60 \* Fixed size of ListView gadgets in InfoPrefs under V40.
- \* Added "Search INFOCOM:" preferences option.
  - \* New command line switch "-m" to be used with -c to set a limit on the length of time spent playing a game.
  - \* Debugging commands (#record, etc.) now use file requester.
  - \* Scripting has a window into which script file can be entered, or the file requester can be used.
- 1.65 \* Fixed scripting in "AMFV" (again).
- \* Removed an Enforcer hit.
  - \* Tidied up InfoPrefs and added a new option to allow a sizing gadget when Infocom is running in a Workbench window.
  - \* When using a proportional font, the cursor adjusts to the size of the character it is over.
  - \* The script window now remembers the file previously entered.
  - \* Added a Project menu with two items; About and Quit.
  - \* New command line switch "-b" to enable CTRL-C when using stdio, regardless of the "-c" options.
  - \* Added the 2nd Infocom sampler (released in 1987) to the list in the "Infocom.games" file.
- 1.70 \* Fixed problem with Infocom running on its own screen if the top/left window position in InfoPrefs was not zero.
- \* Added AmigaGuide on-line help.
  - \* "Pause" command in "Border Zone" works now.
  - \* PROGDIR: is also searched for "Infocom.games".
  - \* Infocom windows on the Workbench screen are now sized with respect to the visible size of the display.
  - \* The German version of "Zork 1" now displays text correctly.
  - \* Graphics in "Beyond Zork" can now be scaled, so that any fixed width font can be used (as for any other version 5 game).
- 1.75 \* Support for both the Amiga and Macintosh sound files supplied with some releases of "Sherlock". Note that the structure of the #?.mid files accompanying the sound data is not understood, so in some circumstances a sound may not play exactly as it does with the official Infocom interpreter. If anyone comes across such an event, please let me know.
- \* Scrolling of location descriptions that are longer than the text window in "Beyond Zork" now works. Use Alt-Cursor Up and Alt-Cursor Down to scroll.
  - \* AppIcon Support. Game files can be dropped on the startup window and saved game files can be dropped on the game window.
  - \* Fixed some problems with two new Inform-compiled games:
    - \* Time-outs can now occur for single key presses. Found in "Freefall", a Tetris clone (honestly).
    - \* The screen is now cleared on restarting a game. Found in "Theatre".
  - \* Version 8 games (as produced by Inform) are now supported. This format is essentially the same as version 5, except that the
-

maximum game size is increased to 512K.

- \* Added "Reset" menu to InfoPrefs, to allow the screen and window parameters to be reset to the default.
- \* The script window can now have a user defined gadget to select an output file or device.
- \* For version 3 games the Infocom window can be resized horizontally as well as vertically (if Infocom is running in a Workbench window with window sizing enabled).
- \* For version 3 games using a proportional font, the text can be right justified.
- \* Added new "Game", "Command" and "Options" menus.

2.00 \* Changed the version number to 2.00 for a new feature:

Proportional font support for *all* games. If you use InfoPrefs to set the fonts used in the game, then the proportional and fixed fonts must have the same height. This now means that there are no limitations when playing version 5 (and 8) games over playing version 3 games.

- \* Horizontal window sizing is now allowed for all game versions.
- \* For the timed input opcodes (used in "Border Zone", "FreeFall"), the clock is now only running when the window is active.
- \* The command line history no longer saves repeats of the same command.
- \* The menu shortcuts for "Save" and "Restore" have been changed to "S" and "O" respectively, the Amiga defaults for saving and opening files.
- \* Fixed problems when saving or restoring files when using stdio.
- \* Hopefully fixed all problems with the "Sherlock" sound files.

2.01 \* Accented characters (e.g. ä) work correctly in both input and output, and in vocabulary listings.

- \* Single key press timeouts have been changed to be a multiple of 1/10th second, as used by Freefall (Release 2).
- \* Switching from proportional to fixed width fonts in the middle of a line (as used in the Inform game "MST3000") now works.
- \* The 'Esc' key is handled correctly (it steps back through the help menus in Inform games).
- \* An optional routine in the game to be called after a sound effect is played is now handled. This means that the fading in and out (as used in "Sherlock" when a cab arrives) works correctly.
- \* New Shell option -u, for use with the -c option and a defined saved game file. This option allows for up to 10 numbered save files to be used, rather than just one.
- \* The 'Del' key no longer crashes the interpreter in stdio mode.

## 1.13 The Interactive Fiction Archive

If you have access to the Internet and are interested in text adventures, then you can find all sorts of programs and information at The Interactive Fiction Archive, at the ftp site ftp.gmd.de, in the /if-archive directory. In particular, there is a large section purely for Infocom related material, in which the latest version of this interpreter can always be found.

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