NAME

symcryptrun - Call a simple symmetric encryption tool

SYNOPSIS

symcryptrun --class *class* **--program** *program* **--keyfile** *keyfile* [**--decrypt**|**--encrypt**] [*inputfile*]

DESCRIPTION

Sometimes simple encryption tools are already in use for a long time and there might be a desire to integrate them into the GnuPG framework. The protocols and encryption methods might be non-standard or not even properly documented, so that a full-fledged encryption tool with an interface like **gpg** is not doable. **symcryptrun** provides a solution: It operates by calling the external encryption/decryption module and provides a passphrase for a key using the standard **pinentry** based mechanism through **gpg-agent**.

Note, that **symcryptrun** is only available if GnuPG has been configured with '--enable-symcryptrun' at build time.

For encryption, the plain text must be provided on STDIN or as the argument *inputfile*, and the ciphertext will be output to STDOUT. For decryption vice versa.

CLASS describes the calling conventions of the external tool. Currently it must be given as 'confucius'. *PROGRAM* is the full filename of that external tool.

For the class 'confucius' the option **--keyfile** is required; *keyfile* is the name of a file containing the secret key, which may be protected by a passphrase. For detailed calling conventions, see the source code.

Note, that **gpg-agent** must be running before starting **symcryptrun**.

The following additional options may be used:

-v
--verbose
> Output additional information while running.

-q
--quiet   Try to be as quiet as possible.

--homedir *dir*
> Set the name of the home directory to *dir*. If this option is not used, the home directory defaults to '*~/.gnupg*'. It is only recognized when given on the command line. It also overrides any home directory stated through the environment variable '*GNUPGHOME*' or (on Windows systems) by means of the Registry entry *HKCU\Software\GNU\GnuPG:HomeDir*.

> On Windows systems it is possible to install GnuPG as a portable application. In this case only this command line option is considered, all other ways to set a home directory are ignored.

> To install GnuPG as a portable application under Windows, create an empty file named '*gpgconf.ctl*' in the same directory as the tool '*gpgconf.exe*'. The root of the installation is then that directory; or, if '*gpgconf.exe*' has been installed directly below a directory named '*bin*', its parent directory. You also need to make sure that the following directories exist and are writable: '*ROOT/home*' for the GnuPG home and '*ROOT/var/cache/gnupg*' for internal cache files.

--log-file *file*
> Append all logging output to *file*. Use '*socket://*' to log to socket. Default is to write logging information to STDERR.

The possible exit status codes of **symcryptrun** are:

0   Success.

1　　　　Some error occurred.

2　　　　No valid passphrase was provided.

3　　　　The operation was canceled by the user.

SEE ALSO

gpg(1), **gpgsm(1)**, gpg-agent(1),

The full documentation for this tool is maintained as a Texinfo manual. If GnuPG and the info program are properly installed at your site, the command

　　info gnupg

should give you access to the complete manual including a menu structure and an index.