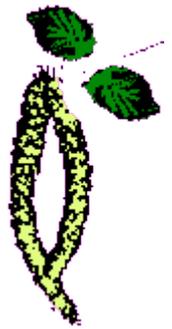


docoll directories and files



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1 Introduction

This document lists the docoll directories and files. It is intended for systems administrators and developers.

1.1 Related documentation

In descending order of likely usefulness to a new reader:

- "docoll system introduction"
- "docoll sysadmin guide"
- "docoll packager's guide"
- "docoll rsync server sysadmin guide"
- "docoll GNU-Linux rsync client sysadmin guide"
- "docoll Windows rsync client sysadmin guide"
- "docoll collating and indexing scripts developer's guide"
- "docoll interactive search developer's guide"

2 Tarballs and .zips

Available from <http://download.savannah.gnu.org/releases/docoll/>

- docoll_all-0.7.3.tgz. All the components listed below including documentation in both ODF and PDF formats and cwrsrc 4.0.5.
- docoll_documentation_odf-0.7.4.tgz. Documentation in ODF format for OpenOffice and LibreOffice users.
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- docoll_windows_client_all-0.7.4.zip. Windows rsync client software suitable for docoll, its documentation and cwrsrc 4.0.5.

3 Directories, symbolic links and files

Details in table on next page.

In the table, path names ending in / are directories. Symbolic link targets are given in the Notes column. For symbolic links, the owner and permissions are those of the target.

Path	Owner	Perm	Usage	Notes
/etc/apache2/conf.d/docoll	root	644	Apache configuration	
/etc/opt/docoll/<instance>/	docoll	755	Scripts and omega configuration	
/opt/docoll/<instance>	docoll	755		Symlink to /opt/docoll/<version>/bin/
/opt/docoll/<version>/bin/	docoll	755	Scripts	
/opt/docoll/<version>/samples/	docoll	755	Sample configuration files	
/srv/docoll/<instance>/	docoll	755	Collation tree	
/srv/rsync/docoll/<instance>	root	755	Source tree, populated by rsync clients	
/usr/lib/cgi-bin/omega/	root	755	For default omega CGI executable	
/usr/lib/cgi-bin/omega/<Omgea version>	root	755	For version-specific omega CGI executable	
/var/log/docoll/<instance>/	docoll	755	Logs	
/var/opt/docoll/<instance>/backup	docoll	755	Backups	For both the Xapian index database and the collating scripts database.
/var/opt/docoll/<instance>/sources/	docoll	755	Source tree	
/var/opt/docoll/<instance>/xapian_db/	docoll	755	Xapian index database	
/var/opt/docoll/<instance>/xapian_db/<instance>	docoll	755	For omega to find the Xapian database	Symlink to its containing directory.
/var/www/	root	755	Apache's DocumentRoot	
/var/www/docoll/	docoll	755		
/var/www/docoll/<instance>/	docoll	755	For Apache to rewrite to an omega call	Empty
/var/www/docoll/<instance>/hits	docoll	755	Root of tree for omega's hit links	Symlink to /srv/docoll/<instance>/

4 Appendix – rationale for directory structure

When choosing an application's directory structure, there are no right answers, only choices. Here are the deliberations leading to the docoll structure.

Reviewed [version 0.65 of the original Linux Filesystem Hierarchy](#) and [version 2.3 of the Debian Filesystem Hierarchy Standard](#) ...

About /opt, the original has "*... reserved for all the software and add-on packages that are not part of the default installation ... To comply with the FSSTND, all third party applications should be installed in this directory*" and Debian has: "*/opt is reserved for the installation of add-on application software packages*".

No definition of what "add-on" and "third-party" was found.

"reserved for" says that what follows is the only permitted use of /opt; it does not say that add-on packages must be installed in /opt.

What is /var/lib for? The original has "*Holds dynamic data libraries/files like the rpm/dpkg database and game scores. Furthermore, this hierarchy holds state information pertaining to an application or the system. State information is data that programs modify while they run, and that pertains to one specific host. Users shouldn't ever need to modify files in /var/lib to configure a package's operation.*" and Debian is not significantly different.

So /var/lib should not be used for static configuration files or executable files.

Where should static configuration files go if not under either /etc/opt or /var/lib? [The Debian policy manual](#) says "***Any configuration files created or used by your package must reside in /etc.*** *If there are several, consider creating a subdirectory of /etc named after your package. If your package creates or uses configuration files outside of /etc, and it is not feasible to modify the package to use /etc directly, put the files in /etc and create symbolic links to those files from the location that the package requires*". /etc/docoll is an option but should not be used if the executable files are under /opt.

Where should executable files go if not /opt and not /var/lib? Perhaps in the normal PATH directories but that would not allow several versions to be installed at the same time and anyway the docoll scripts are specific, not intended for general use so no benefit in adding more files to the almost 1000 files in /usr/bin (as counted on the development Debian Squeeze system).

Reading the FHS further to determine the most compliant directory usage when the /opt option is chosen ...

"Generally, all data required to support a package on a system must be present within /opt/<package>, including files intended to be copied into /etc/opt/<package> and /var/opt/<package> as well as reserved directories in /opt".

Where to put the docoll logs? ...

"/var/log Log files from the system and various programs/services ...". This is where most sysadmins would look for logs rather than buried under /var/opt/.

Where to put the docoll collation, the searchable files that are listed in Omega output? ...

"/srv contains site-specific data which is served by this system. This main purpose of specifying this is so that users may find the location of the data files for particular service, and so that services which require a single tree for readonly data, writable data and scripts (such as cgi scripts) can be reasonably placed. ... The methodology used to name subdirectories of /srv is unspecified as there is currently no consensus on how this should be done. One method for structuring data under /srv is by protocol, eg. ftp, rsync, www, and cvs ..."

/var/www is not mentioned in FHS but it is widely used for webserver files. About */var*: *"/var is specified here in order to make it possible to mount /usr read-only. Everything that once went into /usr that is written to during system operation (as opposed to installation and software maintenance) must be in /var."*

Both */var/www/docoll* and */srv/docoll* could be used with the latter being more FHS-compliant.

5 Appendix – GNU Free Documentation License

Version 1.3, 3 November 2008

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