Working Cygwin VLC Compile Environment (WinXP/Win2K):

This document's purpose is to provide a working Cygwin environment under Windows (Win2K/WinXP).

*** Initial Setup ***

-- Install Cygwin.

http://www.cygwin.com/setup.exe

When you run the Cygwin setup program there are options on components to install. For compiler items, make sure that you select all of the things starting "mingw", plus the "make" item. Do not select any C compilers other than the ones shown in the Appendix to this document; if you select cross-compiler components you can expect an error message about needing to specify --build --host --target.

Make sure that you select the two "gettext" items. Make sure to select "libiconv"

The Appendix shows the Cygwin installation that I use. It absolutely contains extra (not needed for VLC compilation) files, but does work.

Launch Cygwin. It will create a home directory for you. In my case it was c:\cygwin\home\mfm

Download:

http://download.videolan.org/pub/testing/win32/contrib-20040520-win32-bin-gcc3.3.1-only.tar.bz2 into your cygwin home directory.

In your Cygwin shell, enter:
tar xjvf contrib-20040902-win32-bin-gcc3.3.1-only.tar.bz2 -C /

NOTE: For maintenance purposes, periodically check http://download.videolan.org/pub/testing/win32/ to see if a new "contrib" package (date newer than 20040520) is called out. If it is, download the newer file and install it. Also, if you use Internet Explorer, check the filename after downloading - IE will tend to rename the file extension to .tar.tar - you need to change it back to .tar.bz2

Install the subversion tool, from:
http://subversion.tigris.org/servlets/ProjectDocumentList?folderID=91

Still in your Cygwin home directory, create a little batch file, get_svn.bat. It only needs one line:

c:\program files\subversion\bin\svn" co
svn://svn.videolan.org/vlc/trunk vlc-trunk

Put the above little batch file in your Cygwin home directory.

Create one other little file, in whatever text editor you like, containing:

```
./bootstrap && \
CPPFLAGS="-I/usr/win32/include -I/usr/win32/include/ebml" \
LDFLAGS=-L/usr/win32/lib \
CC="gcc -mno-cygwin" CXX="g++ -mno-cygwin" \
./configure \
--disable-sdl --disable-gtk \
```

```
--enable-nls \
--disable-skins \
--disable-skins2 \
--enable-ffmpeg --with-ffmpeg-zlib --with-ffmpeg-mp3lame --with-ffmpeg-faac \
--enable-faad \
--enable-flac \
--enable-theora \
--with-wx-config-path=/usr/win32/bin \
--with-freetype-config-path=/usr/win32/bin \
--with-fribidi-config-path=/usr/win32/bin \
--enable-livedotcom --with-livedotcom-tree=/usr/win32/live.com \
--enable-caca --with-caca-config-path=/usr/win32/bin \
--with-xml2-config-path=/usr/win32/bin \
--disable-dvd \
--disable-dvdnav \
--disable-dvdplay \
--disable-dvdread \
--without-dvdread \
--with-dvdnav-config-path=/usr/win32/bin \
--disable-cddax --disable-vcdx \
--enable-quicktime \
--enable-optimizations \
--enable-release
Make
{Instead of the line "--enable-release", "--enable-debug" will generate
additional debugger information.}
```

Save the above little file -- I called mine "config_setup", in your home directory.

The above gets to a basic compiling environment.

*** Day-to-Day Builds ***

run get_svn.bat (double click on it from a normal Windows Explorer window) -this will do a pull of the current subversion trunk into your home directory,
into the directory vlc-trunk.

For instance, in my environment, my home directory is c:\cygwin\home\mfm. I have get_svn.bat located there. When I run get_svn.bat there is now a directory c:\cygwin\home\mfm\vlc-trunk.

(vlc-trunk will get over-written the next time you run the batch file. If you want to save a snapshot of the existing vlc-trunk, rename the "vlc-trunk" directory to something else.)

In your Cygwin bash shell: cd vlc-trunk

In your shell, run: ../config_setup

to have the little script run. (You don't have to run it as a script, it's just easier than cutting and pasting all the lines)

Go out and take a walk, play with your dog, whatever -- the above script does take time, even on a fast PC. Just let it run until it returns you to a bash shell prompt.

If you're really bored, choose to sit and watch the compilation, expect to see warnings at various times. Unless you see an ERROR, and things stop, don't worry.

NOTE: If during the "make", it generates an error and stops when it is compiling the "po" directory, it is a gettext problem. Run the Cygwin Setup app to deinstall your libiconv and gettext (both of the gettext options), then select to do a reinstall from the Internet of those items, FROM A DIFFERENT MIRROR. I spent over a week with this problem, it turned out the Cygwin mirror I first used had "bad" files.

You should now have a working vlc.exe file. From an Explorer window in Windows, you should see vlc.exe in the vlc-trunk directory.

Copying the necessary executable files: You now have a compiled, working vlc.

To save off just the necessary executable and library files, into a unique directory:

At a Cygwin shell, in the vlc-trunk directory, type: make package-win32-base

will create a subdirectory named vlc-x.x.x with all the binaries 'stripped' (ie. without any debugging symbols).

or

make package-win32-zip
Same as above but will package the directory in a zip file.

Using Daily Snapshots -- share/vlc_win32_rc.rc:15: syntax error
Instead of subversion, you can choose to work from daily snapshots:
http://download.videolan.org/pub/videolan/vlc/snapshots/

If you do this, you may get the syntax error in the resource file.

In share/vlc_win32_rc.rc, delete lines 15&16:
PRODUCTVERSION VERSION_NUMBER
FILEVERSION VERSION_NUMBER

Make a copy of this modified resource file, and copy it into the share directory whenever you download a new daily snapshot.

Appendix - A Working Cygwin Environment

The following are snapshots of the Cygwin packages that I use, a fresh installation on 9 September 2004. Please note – these are not all available Cygwin packages, just the ones I use – if you install additional Devel packages you may get a build error.

+ Admin © Default

+ Admin 🚱 Default					
	1.0-1	⊕ Keep	n/a	n/a	cygrunsrv: NT/W2K service initiator
+ Base 🚱 Default					
	20040127-1	⊕ Keep	n/a	n/a	ash: A Bourne Shell (/bin/sh) workalike
	3.0-3	⋰ Keep	n/a	n/a	base-files: A set of important system configuration and setup files
	2.0-1	⊕ Keep	n/a	n/a	base-passwd
	2.05b-16	⊕ Keep	n/a	n/a	bash: The GNU Bourne Again SHell
	1.5.11-1	⊕ Keep	n/a	n/a	cygwin: The UNIX emulation engine
	2.8.7-1	∢ Keep	n/a	nja	diffutils: A GNU collection of diff utilities
	1.01-1	∢ Keep	n/a	n/a	editrights: Alter user rights and privileges
	4.1-2	⊕ Keep	n/a	n/a	fileutils: GNU file management utilities
	4.1.7-4	∢ Keep	n/a	n/a	findutils: Utilities for finding filesfind, xargs, and locate
	3.1.4-3	⊕ Keep	n/a	n/a	gawk: GNU awk, a pattern scanning and processing language
	1.8.3-7	∢ Keep	n/a	n/a	gdbm: GNU dbm database routines (utilities)
	2.5-1	⊕ Кеер	n/a	n/a	grep: Search and print textual input for lines which match a specified pat
	1.3.5-1	⊕ Keep	n/a	n/a	gzip: The GNU compression utility
	1.8.0-5	∢ Keep	n/a	n/a	libgdbm: GNU dbm database routines (runtime)
	1.8.3-7	∢ Keep	n/a	n/a	libgdbm-devel: GNU dbm database routines (development)
	1.8.3-3	∢ Keep	n/a	n/a	libgdbm3: GNU dbm database routines (runtime)
	1.8.3-7	⊕ Кеер	n/a	n/a	libgdbm4: GNU dbm database routines (runtime)
	5.2-1	⊕ Кеер	n/a	nja	libnourses5: Compatibility libraries for terminal handling (runtime)
	5.2-8	⊕ Keep	n/a	n/a	libnourses6: Current libraries for terminal handling (runtime)
	5.3-4	⊕ Keep	n/a	n/a	libnourses7: Libraries for terminal handling (runtime)
	4.1-2	⊕ Keep	n/a	n/a	libreadline4: GNU readline and history libraries (runtime)
	4.3-5	⋰ Keep	n/a	n/a	libreadline5: GNU readline and history libraries (runtime)
	1.9-7	⊕ Кеер	n/a	n/a	login: Sign on to a system
	1.5k-3	⋰ Keep	n/a	n/a	man: Man, apropos and whatis
	5.3-4	⊕ Кеер	n/a	n/a	ncurses: Libraries for terminal handling (main package)
	4.3-5	⊕ Кеер	n/a	n/a	readline: GNU readline and history libraries
	4.1.2-1	∢ Keep	n/a	n/a	sed: The GNU sed stream editor
	2.0.15-4	⊕ Keep	n/a	n/a	sh-utils: A set of GNU utilities commonly used in shell scripts
	1.13.25-5	∢ Keep	n/a	n/a	tar: A GNU file archiving program
	20021106-2	⊕ Keep	n/a	n/a	termcap: Compatibility package for old termcap-based programs
	5.3_20030726-1	∢ Keep	n/a	n/a	terminfo: Database for nourses-style terminal handling
	2.0.21-1	⊕ Кеер	n/a	n/a	textutils: The GNU text file processing utilities
	1.5-2	⊕ Кеер	n/a	n/a	which: Displays where a particular program in your path is located
	1.2.1-1	⋰ Keep	n/a	nja	zlib: The zlib compression and decompression library
+ Database 🚱 Default					
	4.2.52-1	⋰ Keep	n/a	n/a	libdb4.2; The Sleepycat Berkeley DB Library v4.1 - runtime
+ Devel 🚱 Default					
	2.59-1	⊕ Кеер	n/a	n/a	autoconf: Wrapper scripts for autoconf-devel and autoconf-stable
	2.59-1	⋰ Keep	n/a	n/a	autoconf-devel: Development version of the automatic configure script b
	2.13-5	⊕ Кеер	n/a	n/a	autoconf-stable: Stable version of the automatic configure script builder

	1.7.9-1	€ Keep	n/a	n/a	automake: Wrapper scripts for automake-devel and automake-stable
	1.8.5-1	⊕ Кеер	n/a	n/a	automake-devel: Development version of a tool for generating GNU-co
	1.4p6-2	∢ Keep	n/a	n/a	automake-stable: Stable version of a tool for generating GNU-complian
	20040725-2	⊕ Кеер	n/a	n/a	binutils: The GNU assembler, linker and binary utilities
	0.8.4-1	⊕ Кеер	n/a	n/a	check: A unit test framework for C
	1.9.14-1	⋰ Keep	n/a	n/a	cppunit: A C++ unit testing framework. It started its life as a port of JUni
	5.5-4	⋰ Keep	n/a	n/a	ctags: A C programming language indexing and/or cross-reference tool
	1.11.6-3	⊕ Кеер	n/a	n/a	cvs: Concurrent Version System
	1.2.18-1	⊕ Кеер	n/a	n/a	doxygen: A documentation system for C++, C, Java, IDL (Corba, Micros
	1.10.4-2	⋰ Keep	n/a	n/a	dpkg: A package management system.
	1.95.7-1	⋰ Keep	n/a	n/a	expat: XML parser library written in C
	3.3.3-3	⋰ Keep	n/a	n/a	gcc: C compiler upgrade helper
	3.3.3-3	⋰ Keep	n/a	n/a	gcc-core: C compiler
	3.3.3-3	⊕ Кеер	n/a	n/a	gcc-g++: C++ compiler
	20040810-1	⊕ Кеер	n/a	n/a	gcc-mingw: Mingw32 support headers and libraries for GCC
	20040810-1	⋰ Keep	n/a	n/a	gcc-mingw-core: Mingw32 support headers and libraries for GCC
	20040810-1	⋰ Keep	n/a	n/a	gcc-mingw-g++: Mingw32 support headers and libraries for GCC C++
	0.14.1-1	⋰ Keep	n/a	n/a	gettext: GNU Internationalization library and core utilities (PLUS LINK L
	0.14.1-1	⊕ Keep	n/a	n/a	gettext-devel: GNU Internationalization development utilities (but NOT
	1.33.1-1	⊕ Keep	n/a	n/a	help2man: Creates man pages from program output
	0.8.3-2	⊕ Keep	n/a	n/a	libIDL: CORBA Interface Definition Language file library
	2.1.6-1	⋰ Keep	n/a	n/a	libXft-devel: Provides a client-side font API for X applications. (develop
	2.2.2-1	⋰ Keep	n/a	n/a	libfontconfig-devel: Font configuration and customization library. (devel
	2.1.5-1	⋰ Keep	n/a	n/a	libfreetype2-devel: A Free, High-Quality, and Portable Font Engine. (de
	1.9.2-1	⋰ Keep	n/a	n/a	libicony: GNU character set conversion library and utilities'
	2.6.11-1	⋰ Keep	n/a	n/a	libxml2: The XML C parser and toolkit.
	3.80-1	⋰ Keep	n/a	n/a	make: The GNU version of the 'make' utility
	3.5-1	⋰ Keep	n/a	n/a	mingw-runtime: MinGW Runtime
	1.5-3	⋰ Keep	n/a	n/a	mktemp: Allows safe temp file/dir creation from shell scripts
	4.5-1	⋰ Keep	n/a	n/a	pcre: Perl-Compatible Regular Expressions programs
	0.15.0-4	⋰ Keep	n/a	n/a	pkgconfig: A utility used to retrieve information about installed libraries
+ Doc 🚱 Default					
	1.95.7-1	⋰ Keep	n/a	n/a	expat: XML parser library written in C
	2.6.11-1	€ Keep	n/a	n/a	libxml2: The XML C parser and toolkit.
	1.5k-3	€ Keep	n/a	n/a	man: Man, apropos and whatis
	4.5-1	⊕ Keep	n/a	n/a	pcre-doc: Documentation for Perl-Compatible Regular Expressions
	4.2-4	⊕ Keep	n/a	n/a	texinfo: Documentation system for on-line information and printed output
+ Games 🚱 Default					
+ Graphics 🚱 Defau	lt				
	2.2.0-1	€ Кеер	n/a	n/a	freeglut: OpenSourced alternative to the OpenGL Utility Toolkit (GLUT)
	1.701.0-1	⊕ Keep	n/a	n/a	jasper: JPEG-2000 Library
	1.5-3	⊕ Keep	n/a	n/a	jbigkit: Lossless image compression library
			-		- · · · · · · · · · · · · · · · · · · ·

	1.13-1	€ Кеер	n/a	n/a	Icms: A small-footprint, speed optimized color management engine
	1.2.0.9-1	⊕ Кеер	n/a	n/a	libfpx: Flashpix OpenSource Toolkit
	6Ь-11	⊕ Кеер	n/a	n/a	libjpeg62: A library for manipulating JPEG image format files (runtime)
	6Ь-8	⊕ Кеер	n/a	n/a	libjpeg6b: A library for manipulating JPEG image format files (runtime)
	1.2.5-4	⊕ Кеер	n/a	n/a	libpng12: PNG library - 1.2.x runtime
	1.2.5-4	⊕ Кеер	n/a	n/a	libpng12-devel: PNG library - 1.2.x development libraries and headers
	3.6.0-5	⊕ Кеер	n/a	n/a	libtiff-devel: A library for manipulating TIFF format image files (devel)
	3.6.0-2	⊕ Кеер	n/a	n/a	libtiff3: A library for manipulating TIFF format image files (runtime)
	3.6.0-5	⊕ Кеер	n/a	n/a	libtiff4: A library for manipulating TIFF format image files (runtime)
+ Interpreters 🚱 Default					
	1.95.7-1	🚱 Кеер	n/a	n/a	expat: XML parser library written in C
	20030128-1	🚱 Кеер	n/a	n/a	expect: A program that 'talks' to other programs
	3.1.4-3	🚱 Кеер	n/a	n/a	gawk: GNU awk, a pattern scanning and processing language
	1.6.4-12	🚱 Кеер	n/a	n/a	guile: The GNU extension language and Scheme interpreter (execut-
	2.6.11-1	⋰ Keep	n/a	n/a	libxml2: The XML C parser and toolkit.
	1.4-1	🚱 Кеер	n/a	n/a	m4: A macro processing language
	5.8.5-3	🚱 Кеер	n/a	n/a	perl: Larry Wall's Practical Extracting and Report Language
+ Libs 🚱 Default					
	2.10.3-1	🚱 Кеер	n/a	n/a	ORBit2: CORBA 2.4 Object Request Broker library (executables, run)
	1.9.14-1	⊕ Кеер	n/a	n/a	cppunit: A C++ unit testing framework. It started its life as a port of JL
	1.1-1	ጭ Keep	n/a	n/a	crypt: Encryption/Decryption utility and library
	7.11.1-1	⊕ Кеер	n/a	n/a	curl: A client that groks URLs
	1.95.7-1	⊕ Кеер	n/a	n/a	expat: XML parser library written in C
	2.2.2-1	⊕ Кеер	n/a	n/a	fontconfig: Font configuration and customization library. (main packa _!
	2.2.0-1	🚱 Кеер	n/a	n/a	freeglut: OpenSourced alternative to the OpenGL Utility Toolkit (GLU
	2.1.5-1	⊕ Кеер	n/a	n/a	freetype2: A Free, High-Quality, and Portable Font Engine. (main pac
	0.14.1-1	🚱 Кеер	n/a	n/a	gettext: GNU Internationalization library and core utilities (PLUS LINK
	2.4.5-1	ጭ Keep	n/a	n/a	glib2: Low-level core library - runtime libraries and executables
	2.4.5-1	🚱 Кеер	n/a	n/a	glib2-devel: Headers and import libraries for glib
	2.4.5-1	🚱 Кеер	n/a	n/a	glib2-runtime: Low-level core library - runtime libraries and executable
	1.701.0-1	🚱 Кеер	n/a	n/a	jasper: JPEG-2000 Library
	1.5-3	🚱 Кеер	n/a	n/a	jbigkit: Lossless image compression library
	6Ь-11	⊕ Кеер	n/a	n/a	jpeg: A library for manipulating JPEG image format files
	1.13-1	⊕ Кеер	n/a	n/a	lcms: A small-footprint, speed optimized color management engine
	1.0.6-1	⊕ Кеер	n/a	n/a	libGraphicsMagick0: GraphicsMagick. (runtime)
	0.8.3-2	🚱 Кеер	n/a	n/a	libIDL: CORBA Interface Definition Language file library
	6.0.4-1	🚱 Кеер	n/a	n/a	libMagick6: ImageMagick. (runtime)
	2.1.6-1	⊕ Keep	n/a	n/a	libXft: Provides a client-side font API for X applications. (main packag
	2.1.6-1	⊕ Keep	n/a	n/a	libXft-devel: Provides a client-side font API for X applications. (develo
	1.0.0-1	⊕ Кеер	n/a	n/a	libXft1: Provides a client-side font API for X applications. (runtime)
	2.1.6-1	⊕ Keep	n/a	n/a	libXft2: Provides a client-side font API for X applications. (runtime)
	0.9.5pre20040608-1	⊕ Кеер	n/a	n/a	libapr0: The Apache Portable Runtime (runtime package)
	0.9.5pre20040608-1	ጭ Keep	n/a	n/a	libaprutil0: Additional utility library for use with the Apache Portable Ri

1.9.2-1	1.0.2-5	⋰ Keep	n/a	n/a	libbz2_1: Shared libraries for bzip2 (runtime)
2.2.2-1		⊕ Keep	n/a	n/a	libcharset1: GNU character set conversion library and utilities - runtim
1.2.0.9-1 2.1.5-1 3. Keep n/a n/a libfpx: Flashpix OpenSource Toolkit 2.1.5-1 3. Keep n/a n/a libfreetype2-devet. A Free, High-Quality, and Portable Font Engine. (c 2.1.5-1 3. Keep n/a n/a libfreetype2-devet. A Free, High-Quality, and Portable Font Engine. (c 2.1.5-1 3. Keep n/a n/a libfreetype2-devet. A Free, High-Quality, and Portable Font Engine. (c 2.1.5-1 3. Keep n/a n/a libguile12: The GNU extension language and Scheme interpreter (rur 1.6.4-2 3. Keep n/a n/a libguile12: The GNU extension language and Scheme interpreter (rur 1.9.2-1 3. Keep n/a n/a libiconv2: GNU character set conversion library and utilities* 1.9.2-1 3. Keep n/a n/a libiconv2: GNU Internationalization runtime library 1.0.10.38-3 3. Keep n/a n/a libint1: GNU Internationalization runtime library 1.0.14.1-1 3. Keep n/a n/a libint1: GNU Internationalization runtime library 1.0.14.1-1 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.14.1-1 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization runtime library 1.0.2-13 3. Keep n/a n/a libint3: GNU Internationalization run	2.2.2-1	⊕ Keep	n/a	n/a	libfontconfig-devel: Font configuration and customization library. (dev
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2.1.5-1 O Keep	1.2.0.9-1	⊕ Keep	n/a	n/a	libfpx: Flashpix OpenSource Toolkit
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1.6.4-4	5.3-4	⊕ Кеер	n/a	n/a	ncurses: Libraries for terminal handling (main package)
20030901-1	0.9.7d-1	⊕ Кеер	n/a	n/a	openssl: The OpenSSL runtime environment
20021106-2	1.6.4-4	∳ Кеер	n/a	n/a	popt: Library for parsing cmdline parameters - docs and development
3.1-1 ♠ Keep n/o n/o w32api: Win32 API header and library import files	20030901-1	⊕ Кеер	n/a	n/a	tcltk: TCL/Tk libraries
	20021106-2	⊕ Кеер	n/a	n/a	termcap: Compatibility package for old termcap-based programs
1.2.1-1 ♣ Keep n/a n/a zlib: The zlib compression and decompression library	3.1-1	⊕ Кеер	n/a	n/a	w32api: Win32 API header and library import files
	1.2.1-1	⋰ Keep	n/a	n/a	zlib: The zlib compression and decompression library

+ Mail 🚱 Default					
· Man O Bolasik	2002e-3	⊕ Keep	n/a	n/a	uw-imap: UW IMAP Toolkit
+ Mingw 🚱 Default	20020 0	- 1.00p		.4	an map. 5 to the trooping
- mingri - O - D - Gram	1.2.1-1	⊕ Keep	n/a	n/a	mingw-zlib: (mingw version) of the zlib compression and deco
+ Net 🚱 Default		-Ooop			ming. Line. (ming. 16.666), or the Line compression and dece
. Hot & Boldan	0.9.7d-1	⊕ Keep	n/a	n/a	openssl: The OpenSSL runtime environment
+ Publishing 🚱 Default	0.0.14	Ф.1.00р	.4	.4	oponosi. The oponosiz ranking string interior
- 1 abiloting & botoan	2.0.2-13	€ Keep	n/a	n/a	libkpathsea3: The TeX text formatting system (runtime librarie
	2.0.2-2	⊕ Keep	n/a	n/a	libkpathsea3abi13: The TeX text formatting system (runtime li
+ Shells 🚱 Default		Op			
	20040127-1	€ Keep	n/a	n/a	ash: A Bourne Shell (/bin/sh) workalike
	2.05b-16	⊕ Keep	n/a	n/a	bash: The GNU Bourne Again SHell
	2.0.15-4	⊕ Keep	n/a	n/a	sh-utils: A set of GNU utilities commonly used in shell scripts
+ System 🚱 Default	2.0.10	Ф.1.00p	.4	.4	arrana. Trock of arra distinct commonly dood in orion complet
	1.5k-3	⊕ Keep	n/a	n/a	man: Man, apropos and whatis
+ Text 🚱 Default		Qop			man, man, apropos and mans
. Tolk & Boldak	1.95.7-1	⊕ Keep	n/a	n/a	expat: XML parser library written in C
	1.18.1-2	⊕ Keep	n/a	n/a	groff: GNU troff text-formatting system
	381-1	⊕ Keep	n/a	n/a	less: A file pager program, similar to more(1)
	2.0.2-13	⊕ Keep	n/a	n/a	libkpathsea3: The TeX text formatting system (runtime librarie
	2.0.2-2	€ Keep	n/a	n/a	libkpathsea3abi13: The TeX text formatting system (runtime li
	2.6.11-1	€ Keep	n/a	n/a	libxml2: The XML C parser and toolkit.
	4.2-4	⊕ Keep	n/a	n/a	texinfo: Documentation system for on-line information and prir
+ Utils 🚱 Default		Qoop			Common December Association System for Strain Commencer and principles
🔾	1.0.2-5	⊕ Keep	n/a	n/a	bzip2: A high-quality block-sorting file compressor - utilities
	1.2.5-1	⊕ Keep	n/a	n/a	cygutils: A collection of simple utilities
	4.10-1	⊕ Keep	n/a	n/a	file: Determines file type using 'magic' numbers
	2.5.8-8	⊕ Keep	n/a	n/a	patch: Apply a diff file to an original
	4.5-1	⊕ Keep	n/a	n/a	pcre: Perl-Compatible Regular Expressions programs
+ Web 🚱 Default		U	·	·	F F
🗸	7.11.1-1	€ Keep	n/a	n/a	curl: A client that groks URLs
+X11 🚱 Default		V	·		
• • • • • • • • • • • • • • • • • • • •	0.93.94-2	⊕ Кеер	n/a	n/a	lesstif: Lesstif
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-base: Cygwin/X base
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-bin: Cygwin/X bin
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-bin-dlls: Cygwin/X bin dlls
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-bin-Indir: Cygwin/X bin
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-devel: Cygwin/X headers and import libraries
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-etc: Cygwin/X etc
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-fenc: Cygwin/X font encodings
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-fnts: Cygwin/X 75 dpi, misc, and util fonts
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-libs-data: Cygwin/X shared files
	6.8.0.0-1	⊕ Keep	n/a	n/a	xorg-x11-xwin: Cygwin/XX server
+_PostInstallLast 🚱 De				-	
	00227-1	⊕ Keep	n/a	n/a	_update-info-dir: Generate info/dir file automatically
			•	-	<u> </u>