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Menu

```
+ -Package
: +-Open Package File (*.lpk) ...
: :
: : changes packagefiles.xml to:
: : <?xml version="1.0" encoding="UTF-8"?>
: : <CONFIG>
: : <UserPkgLinks Version="3" Count="1">
: : <Item1>
: : <Name Value="GR32_DSGN_Lazarus"/>
: : <Version Major="3"/>
: : <Filename Value="/graphics32/Source/Packages/Lazarus/GR32_DSGN_Lazarus.lpk"/>
: : <LastUsed Value="2024/04/11 11:36:26"/>
: : </Item1>
: : </UserPkgLinks>
: :
: +-Install/Uninstall Packages ...
: : +-Install Selection ListBox select
: : : +-GR32_DSGN_Lazarus 3.0
: : :
: : : shows PackageInfo:
: : : Graphics32 is a library designed for fast 32-bit graphics handling on Delphi and Lazarus.
: : : Author: Team Graphics32
: : : Filename: /graphics32/Source/Packages/Lazarus/GR32_DSGN_Lazarus.lpk
: : : Current state: not installed, RunAndDesignTime
: : :
: : +-[Install Selection]
: : +-Uninstall Selection ListBox select
: : : +-GR32_DSGN_Lazarus 3.0
: : :
: : : shows PackageInfo:
: : : Graphics32 is a library designed for fast 32-bit graphics handling on Delphi and Lazarus.
: : : Author: Team Graphics32
: : : Filename: /graphics32/Source/Packages/Lazarus/GR32_DSGN_Lazarus.lpk
: : : Current state: selected for installation, not installed, RunAndDesignTime
: : :
: : +-[Save And Exit Dialog]
: : +-Confirm new package set for the IDE
: : : +-[Continue]
: : :
: +-Package Graph ...
: : +-ListBox
: : : +-GR32_DSGN_Lazarus 3.0
: : :
: : : shows info:
: : : Filename: /graphics32/Source/Packages/Lazarus/GR32_DSGN_Lazarus.lpk
: : : State: Install on next start
: : : Description: Graphics32 is a library for ... graphics handling on Delphi and Lazarus.
: : :
: : +-[Close]
: :
+ -Tools
: +-Configure "Build Lazarus"
: : +-Options += -vt (temporarily for higher verbosity)
: : +-[Save Settings]
: : :
: +-Build Lazarus with Profile:...
: : +-[Yes]
: :
: : leads to message:
: : lazarus.pp(1,1) Error: (10022) Cannot find GR32_DSGN_Lazarus used by Lazarus.
: : Check if package GR32_DSGN_Lazarus creates GR32_DSGN_Lazarus.ppu, check nothing
: : deletes this file and: check that no two packages have access to the unit source..
: :
+ -Package
: +-Open Package File (*.lpk) ...
: : +-Compile
: : :
: : : leads to message:
: : : Compile package GR32_DSGN_Lazarus 3.0: Success, Warnings:109, Hints:359
: : :
: : +-Use->Install
: : : +-Rebuild Lazarus
: : : +-[Yes]
: : :
: : : leads to message:
: : : GR32_Blend.pas(85,12) Error: (10022) Can't find unit GR32_Blend used by GR32
: : : Verbose: (1018) Compilation aborted
```

```
*****
* The last message is part of a 59,7 MByte large message log file *
* Lets look what's goin on here ... :-) *
* Search for GR32 lead us to line 596217 of the log *
*****
```

596217: (10000) Unitsearch: **GR32\_DSGN\_Lazarus.ppu**

*Here half the universe is searched to find the ppu.  
But it is clearly known where they should be (see f.e. packagefiles.xml)  
GR32\_DSGN\_Lazarus.lpk -> Unit Output Directory*

596715: (10001) PPU Loading  
/graphics32/Source/Packages/Lazarus/lib/x86\_64-linux/gtk2/GR32\_DSGN\_Lazarus.ppu

596716: (10000) Unitsearch: **GR32.Design.Reg.ppu**

597214: (10001) PPU Loading  
/graphics32/Source/Packages/Lazarus/lib/x86\_64-linux/gtk2/GR32.Design.Reg.ppu

597215: (10000) Unitsearch: **GR32.ppu**

597713: (10001) PPU Loading /graphics32/Source/Packages/Lazarus/lib/x86\_64-linux/gtk2/GR32.ppu

597714: (10000) Unitsearch: **GR32\_Bindings.ppu**

598212: (10001) PPU Loading  
/graphics32/Source/Packages/Lazarus/lib/x86\_64-linux/gtk2/GR32\_Bindings.ppu

598213: (10000) Unitsearch: **GR32.CPUID.ppu**

598711: (10001) PPU Loading /graphics32/Source/Packages/Lazarus/lib/x86\_64-linux/gtk2/GR32.CPUID.ppu

598712: (10000) Unitsearch: **GR32\_System.ppu**

599210: (10001) PPU Loading  
/graphics32/Source/Packages/Lazarus/lib/x86\_64-linux/gtk2/GR32\_System.ppu

599211: (10000) Unitsearch: **GR32\_Blend.ppu**

599709: (10001) PPU Loading /graphics32/Source/Packages/Lazarus/lib/x86\_64-linux/gtk2/GR32\_Blend.ppu

599710: (10000) Unitsearch: **GR32\_Blend.pp**

599714: (10000) Unitsearch: **GR32\_Blend.pas**

601126: (10000) Unitsearch: **GR32\_Ble.pp**

601130: (10000) Unitsearch: **GR32\_Ble.pas**

```
Searching file GR32_Blend.pas... not found ---> ( )
Searching file gr32_blend.pas... not found ---> ( lower case )
Searching file GR32_BLEND.PAS... not found ---> ( upper case )
Searching file GR32_Ble.pp... not found ---> ( DOS 8.3 with ext .pp )
Searching file gr32_ble.pp... not found ---> ( DOS 8.3 with ext .pp lower case )
Searching file GR32_BLE.PP... not found ---> ( DOS 8.3 with ext .pp upper case )
Searching file GR32_Ble.pas... not found ---> ( DOS 8.3 with ext .pas )
Searching file gr32_ble.pas... not found ---> ( DOS 8.3 with ext .pas lower case )
Searching file GR32_BLE.PAS... not found ---> ( DOS 8.3 with ext .pas upper case )
```

```
(10000) Unitsearch: /fpcupdeluxe/lazarus/designer/
(10000) Unitsearch: /fpcupdeluxe/lazarus/debugger/
(10000) Unitsearch: /fpcupdeluxe/lazarus/debugger/frames/
(10000) Unitsearch: /fpcupdeluxe/lazarus/converter/
(10000) Unitsearch: /fpcupdeluxe/lazarus/packager/
(10000) Unitsearch: /fpcupdeluxe/lazarus/packager/frames/
(10000) Unitsearch: ./frames/
(10000) Unitsearch: .
(10000) Unitsearch: /fpcupdeluxe/lazarus/packager/units/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/codetools/units/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/debuggerintf/lib/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazutils/lib/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/freetype/lib/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/lcl/units/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/lcl/units/x86_64-linux/gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/buildintf/units/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/ideintf/units/x86_64-linux/gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/synedit/units/x86_64-linux/gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazcontrols/lib/x86_64-linux/gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazcontrols/design/lib/x86_64-linux/gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazdebuggers/lazdebuggerintf/lib/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazdebuggers/cmdlinedebuggerbase/lib/x86_64-linux/gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazdebuggergdbmi/units/x86_64-linux/gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lclexensions/lib/x86_64-linux-gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/virtualtreeview/lib/x86_64-linux-gtk2/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/fpdebug/lib/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazdebuggers/lazdebuggerfp/lib/x86_64-linux/gtk2/
```

(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazdebuggers/lazdebuggerlldb/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/lazdebuggers/lazdebuggerfp1ldb/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: ./packages/ideconfig/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: ./packages/idedebugger/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/leakview/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/tachart/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/synedit/design/units/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/sqlldb/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/projecttemplates/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/memds/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/daemon/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/jcf2/IdePlugin/lazarus/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/instantfpc/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /graphics32/Source/Packages/Lazarus/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/fpcunit/ide/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/externhelp/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/tdbf/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/datetimectrls/design/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/codetools/ide/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/Chmhelp/packages/idehelp/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/chmhelp/packages/help/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/sdf/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/datetimectrls/lib/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/lazarus/components/jcf2/lib/x86\_64-linux/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/httpd22/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/rtl/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/aspell/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fcl-net/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/gtk2/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/gdbm/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/x11/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/zlib/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/dbus/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/ibase/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/a52/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/syslog/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/bfd/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/opengl/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fcl-fpcunit/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fcl-image/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/newt/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/cairo/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/paszlib/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fpmkunit/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/utl-pas2js/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/rtl-unicode/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/ggi/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/hash/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/tplylib/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/libcurl/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/rtl-generics/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/tcl/  
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(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/libmagic/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fcl-xml/  
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(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/vcl-compat/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fcl-json/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/threads/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/bzip2/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/libenet/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/libcups/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fcl-registry/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/oracle/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fcl-report/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/fcl-db/  
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86\_64-linux/libusb/

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(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fcl-stl/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/libmicrohttpd/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/imagemagick/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/sdl/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/gnutls/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/libgc/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/postgres/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/mysql/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/users/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/zorba/
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(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/httpd24/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fcl-sound/
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(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/modplug/
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(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/dts/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/googleapi/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/openal/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fcl-process/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/proj4/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fftw/
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(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fastcgi/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/odata/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/iconvenc/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/numlib/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fcl-pdf/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/webidl/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/cdrom/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/regexpr/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/utmp/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/pcap/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fcl-web/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/symbolic/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/libpng/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/libgd/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/rtl-extra/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/libfontconfig/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fcl-passrc/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/dblib/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/hermes/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/chm/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/opencv/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/opengles/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/unzip/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/oggvorbis/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/mad/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/svgalib/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/fcl-sdo/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/libffi/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/pastajs/
(10000) Unitsearch: /fpcupdeluxe/fpc/units/x86_64-linux/
(10000) Unitsearch: /fpcupdeluxe/fpc/bin/x86_64-linux/

(10011) PPU Source: GR32_Blend.pas not available
(10011) PPU Source: GR32.inc not available
(10011) PPU Source: GR32_Compiler.inc not available

(10028) Recompiling GR32_Blend, checksum changed for /graphics32/Source/Packages/Lazarus/lib/x86_64-linux/gtk2/GR32.ppu
make[2]: *** [Makefile:4362: lazarus] Error 1
make[1]: *** [Makefile:4801: ide] Error 2
make: *** [Makefile:3116: ide] Error 2

```

```
/graphics32/Source/Packages/Lazarus/lib/x86_64-linux/gtk2/GR32_Blend.ppu:GR32_Blend.pas(85,12)
Fatal: (10022) Can't find unit GR32_Blend used by GR32
Fatal: (1018) Compilation aborted
Error: /fpcupdeluxe/fpc/bin/x86_64-linux/ppcx64 returned an error exitcode
make[2]: Leaving directory '/fpcupdeluxe/lazarus/ide'
make[1]: Leaving directory '/fpcupdeluxe/lazarus/ide'
make: Leaving directory '/fpcupdeluxe/lazarus'
```

```
*****
* questions:
*****
```

- Here half the universe is searched to find the ppu.  
But it is clearly known where they should be (see f.e. packagefiles.xml)  
GR32\_DSGN\_Lazarus.lpk -> Unit Output Directory (-FU)

- The source files could not be found.  
Unfortunately, the wrong side of the universe is being searched for the source files.  
The project path is not included in the list of paths that have been searched.  
GR32\_DSGN\_Lazarus.lpk -> other unit Files (-Fu)

```
*****
* conclusion:
*****
```

- It can be definitely assumed that Lazarus knows the path of the package project file \*.lpk  
( see packagefiles.xml and package infos, shown in Install/Uninstall Packages and Package Graph )

- The source files are currently located in the folder structure above the package path:  
graphics32/Source  
graphics32/Source/Design  
graphics32/Source/Packages/Lazarus

**Attention**

-> see [https://wiki.freepascal.org/Lazarus\\_Packages#Creating\\_a\\_package\\_for\\_your\\_common\\_units](https://wiki.freepascal.org/Lazarus_Packages#Creating_a_package_for_your_common_units)

... The directory where the lpk file is, is called the "package directory". ...

- That means:  
Moving the lpk files to the source directory should guarantee that the sources can be found  
in a known location

```
*****
* test:
*****
```

Menu

```
+Package
+-Open Package File (*.lpk) ...
+-Compile
:
: leads to message:
:   Compile package GR32_DSGN_Lazarus 3.0: Success, Warnings:109, Hints:359
:
+-Use->Install
+-Rebuild Lazarus
+-[Yes]
```

```
leads to message:
GR32_Blend.pas(85,12) Error: (10022) Can't find unit GR32_Blend used by GR32
Verbose: (1018) Compilation aborted
```

```
*****
* questions:
*****
```

- If the GR32\_Blend.ppu could be loaded (see 599709),  
why are the sources for GR32\_Blend.ppu being searched for at all?

```
596217: (10000) Unitsearch: GR32_DSGN_Lazarus.ppu:
interface uses
GR32.Design.Reg, GR32.Design.Color32, GR32, GR32_Bindings, GR32_Blend, GR32_ColorGradients,
GR32_Filters, GR32_LowLevel, GR32_Math, GR32_MicroTiles, GR32_Polygons,
GR32_PolygonsAggLite, GR32_Rasterizers, GR32_Resamplers, GR32_System,
GR32_Transforms, GR32_VectorUtils, GR32_VPR2, GR32.Blend.Pascal,
LazarusPackageIntf;
```

```
596716: (10000) Unitsearch: GR32.Design.Reg.ppu
implementation uses
GR32, GR32.Design.Color32, GR32.Design.BitmapEditor, GR32.Design.Misc, GR32_Image,
```

```
{IFDEF Windows} GR32_ExtImage, {$ENDIF} GR32_Layers, GR32_RangeBars,  
GR32_ColorPicker, GR32_ColorSwatch, GR32_Resamplers;
```

597215: (10000) Unitsearch: **GR32**.ppu

interface uses

```
{IFDEF FPC} LCLIntf, LCLType, Types, {$ELSE} UITypes, Types, Windows, {$ENDIF}  
Math, Controls, Graphics, Classes, SysUtils,
```

**GR32\_Bindings**;

implementation uses

```
Clipbrd, GR32_Blend, GR32_LowLevel, GR32_System, GR32_Math, GR32_Resamplers,  
GR32_Containers, GR32_Gamma, GR32_Clipboard, GR32_Backends, GR32_Backends_Generic,  
{IFDEF FPC} {IFDEF LCLWin32} GR32_Backends_LCL_Win, {$ENDIF}  
{IF defined(LCLGtk) or defined(LCLGtk2)} GR32_Backends_LCL_Gtk, {$IFEND}  
{IFDEF LCLCarbon} GR32_Backends_LCL_Carbon, {$ENDIF}  
{IFDEF LCLCustomDrawn} GR32_Backends_LCL_CustomDrawn, {$ENDIF}  
{ELSE} GR32_Backends_VCL, {$ENDIF}  
GR32.ImageFormats, GR32.ImageFormats.Default;
```

597714: (10000) Unitsearch: **GR32\_Bindings**.ppu

interface uses

```
Classes, {$IFDEF PUREPASCAL} GR32.CPUID, {$ENDIF} GR32_System;
```

implementation uses

Math;

598213: (10000) Unitsearch: **GR32.CPUID**.ppu

598712: (10000) Unitsearch: **GR32\_System**.ppu

interface uses

```
{IFDEF FPC} LCLIntf, LCLType, {$if defined(Windows)} Windows, {$elseif defined(UNIX)} Unix,  
BaseUnix, {$ifend} {$ELSE} Windows, {$ENDIF}
```

```
{IFDEF PUREPASCAL} GR32.CPUID, {$ENDIF}
```

SysUtils;

implementation uses

Classes;

599211: (10000) Unitsearch: GR32\_Blend.ppu

interface uses

```
SysUtils, GR32, GR32_Bindings;
```

-----  
**GR32\_DSGN\_Lazarus**

+-> **GR32.Design.Reg**

```
+-> GR32 <-----+  
  +-> GR32_Bindings <-----+  
  |   +-> GR32.CPUID <--' |  
  |   +-> GR32_System --' |  
  \-> GR32_Blend -----'
```

```
*****  
* conclusion: *  
*****
```

- Here, too, everything seems to be in order. Everyone refers to everyone else,  
but in accordance with the rules.  
- But the questions posed above remain unanswered so far ... :-)