

Install.dopus5

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COLLABORATORS

	<i>TITLE :</i> Install.dopus5		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

Install.dopus5

1.1 Version Installation Program for Directory Opus Magellan

\$VER: Install.dopus5.guide 3.3 (05.06.97) © Frédéric Steinfelds

Version Installation Program for Directory Opus Magellan

This program is eMailWare.
If you like it, please send me an eMail!

Contents

```
~Copyright~~~~~          ~~
  distributing

~Introduction~~          ~~
  why should I use this program

~Requirements~~~~
  what you need to use this program

~Installation~~      ~~
  if you dont like installers...

~Features/Preferences/Buttons
  and of course starting... :-)

~Important
  read before using

Internals
  how the program works

~History~~~~~      ~~~      ~~
  what's new, fixed and changed

~Future~~~~~
  ~
```

```

        what's left to do

~Known~Bugs~~~~~      ~~
    "It's not my fault..."

~Author~~~~~         ~~
    send me an eMail!

```

New versions can be obtained from Aminet or directly from the author.

1.2 important

If you are using this program on a read only file system or if you ↔ don't want that your file comment will be overwritten, you must disable the the

```

write Comment
function.

```

For read only file systems you should also disable the orther three functions:

```

replace

auto replace

complete

```

1.3 History

- ```

1.x ~ a year ago History stripped

2.0 (10.02.1997) · Complete rewrite
2.1 (14.02.1997) · various bugfixes
2.2 (17.02.1997) · "Preferences Editor" implemented as DOpus toolbar :-)
 · The month in the version string was always one month
 too high
2.3 (25.02.1997) · If REPLACES and REPLACED were disabled, the abort ↔
 requester
 · 'You must set more compare criteriums' appeared
 (26.02.1997) · Ports are closed with FORBID/PERMIT
 · File variables are dropped/freed
2.4 (04.03.1997) · Wrote this guide
2.5 (16.03.1997) · As variables were dropped to early sometimes, I disabled
 this function until I can fix it
 · Output of the Install_Preferences.dopus5 ('show Settings'
 button) improved
 · Fixed three links in this guide
 · Added new sections and links to the guide
 · The program is fully localized now
2.6 (17.03.1997) · As I'm waiting now for the subtasks, there should be no
 more endless loops because of lost packets
 · c:Version and c>Delete were added even if they were

```

- already present
- CleanUP code wasn't executed as it should
- Forgot to translate two strings in Install\_Request
- Dropping of variables works now
- 2.7 (18.03.1997) • Bug in a requester removed
- Wrote german documentation
- Improved the documentation
- 2.8 (19.03.1997) • Fixed some wrong links in the german guide
- Exchanged buttons in the german button bar moved back
- 3.0 (01.04.1997) • A patch to fix this ugly endless loop / crash in c:version included (from Urs Eprecht). It occurred if there was a \$ sign in the last four bytes of a file.
- A minor change in the german catalog
- Updated installer scripts and guides
- 3.1 (09.05.1997) • Fixed problems with spaces in the path
- Added some 'Call's to avoid result values being executed as rexx commands
- Cosmetic bugfixes in the error requesters
- Due to a bug in ARexx, some error requester always showed 'invalid message packet'
- The hidden listers are closed after all PORTS had been closed to avoid an 'arithmetic conversion error' (only occurred if you pressed ctrl-c in the ouptut window)
- Delete protected files are automatically deprotected if necessary
- Better checking and warning for delete protected files
- Changes in the installer script, the guide and the locale files
- 3.2 (01.06.1997) • Fixed a never considered case: After having copied a file, it's variables were dropped. If the destination files scanner hadn't scanned this directory yet, it would have found this file after the variables were dropped. The program tried to compare these files and as variables were missing, an 'arithmetic conversion error' occurred
- 3.3 (05.06.1997) • The catalog is again copied to 'LOCALE:' instead of 'DOpus5:Locale' because without an additional 'assign LOCALE: DOpus5:Locale ADD', rexx couldn't find the catalog. Unfortunately there is no possibility to open a catalog in a certain directory (in rexx) as far as I know
- Additions to the guide
- Please read the known bugs section!

## 1.4 future

Listed in decreasing priority:

- Option for a requester if a file only exists in either source or destination (Choices: Complete, Delete, Skip)
- Progress bar including abort button
- - icon compare routine
- only search version if both files exist and both have a different
  - crc
    - compiled version if possible
 (I compiled it with rexxplus:
  - The size of every file became about 10 times greater.
  - I haven't been able to gain a single second
 I think we can forget a compiled version  
 Optimizing with RexxOpt made the program unusable and even slower)
- write
  - crc
  - /Hex Date/Version to file instead of comment

Send me your requests!

## 1.5 Known bugs

- Doesn't support the special character translation FFS International supports. Eg. çatefaitplaisirjon is not equal to Çatefaisplaisirjon.
- Unfortunately, it's slow, even on a 060. The concept is too good for the overhead of ARexx.
- Due to a bug in DirectoryOpus, you can get two source lister what is illegal. DOpus seems to be a bit confused then about the state of this lister. It will always be source or off, but never destination. You have to leave the directory (parent) and then reenter it to restore normal behaviour.

Send me your bug reports!

## 1.6 Copright/Distribution

COPYRIGHT

Install.dopus5 © Frédéric Steinfels, fsteinfe@iic.ethz.ch

Install.dopus5 is eMailWare. It~is~NOT~public~domain.~

The~author~gives~permission~to~freely~distribute~this~archive~over~Bulletin Boards, ~Aminet, ~Aminet~CDs, ~Fred~Fish~collections and of course Directory Opus if no~modification~is made~to~the~original distribution.

All others have to contact me first.

DISCLAIMER

This~software~is~provided~"as-is"~and~the



author  
~accepts~no~responsibility  
for~damage~and/or~loss~of~data/equipment~resulting~from~the~use~of~this~software.

The following files are in the copyright of their authors:

rexxdossupport.library  
Copyright (C) 1994-1997 by Hartmut Goebel, <hartmut@oberon.nbg.sub.org>

rexxtricks.library  
Copyright (C) 1994,95 by Jürgen Kohrmeyer, <J\_Kohrmeyer@wilam.north.de>

version.pch  
Copyright (C) 1997 by Urs Eprecht

Don't forget to send me an eMail!

## 1.7 Introduction to Install.dopus5

Is it useful for me?

Do you have more than one amiga? Do you have to update other amigas with the latest libraries/tools etc?

If yes, this program is very useful for you!

As far as I know, there is by far no other program available with the same functionality.

What does it?

It installs complete directory trees from one harddrive/path/  
source  
to another  
harddrive/path/  
destination  
, if you want, even in both directions.

It is smart: It scans the  
size  
,  
creation date  
,  
version base name  
,  
version  
,  
revision  
and  
version date  
of each file. If all of these points (or at least  
all of those you've enabled in the

```

 preferences editor
) declare a file to be
newer, the older one will
 automatically be replaced
 by the newer. If it's not
clear which file is newer, a
 requester
 will ask you which file you want to
replace.

```

```

If you want, it
 completes directories
 , from
 source
 to
 destination
 ,
 destination
 to
 source
 or in both directions.

```

## 1.8 About the author

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## 1.9 Installing Install.dopus5

If you don't like my installer script, you can do it manually:

| Quelle | Ziel |
|--------|------|
|--------|------|

Needed:

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| ARexx/Install_Execute.dopus5     | DOpus5:ARexx/Install_Execute.dopus5     |
| ARexx/Install_GetID.dopus5~      | DOpus5:ARexx/Install_GetID.dopus5       |
| ARexx/Install_Main.dopus5        | DOpus5:ARexx/Install_Main.dopus5        |
| ARexx/Install_Preferences.dopus5 | DOpus5:ARexx/Install_Preferences.dopus5 |
| ARexx/Install_Request.dopus5     | DOpus5:ARexx/Install_Request.dopus5     |

|                              |                                     |
|------------------------------|-------------------------------------|
| ARexx/Install_Scan.dopus5    | DOpus5:ARexx/Install_Scan.dopus5    |
| ARexx/Install_Startup.dopus5 | DOpus5:ARexx/Install_Startup.dopus5 |
| Libs/rexxdossupport.library  | Libs:rexxdossupport.library         |
| Libs/rexxtricks.library      | Libs:rexxtricks.library             |
| System/Install_Locale.prefs  | DOpus5:System/Install_Locale.prefs  |
| System/Install_Main.prefs    | DOpus5:System/Install_Main.prefs    |

If you prefer german:

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Install.dopus5_ger.guide                | DOpus5:Help/Install.dopus5_ger.guide                 |
| Buttons/Install_Preferences_deutsch     | DOpus5:Buttons/Install_Preferences                   |
| Catalogs/deutsch/Install.dopus5.catalog | LOCALE:Catalogs/deutsch/Install.dopus5. ←<br>catalog |

If you prefer english:

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Install.dopus5_eng.guide            | DOpus5:Help/Install.dopus5_eng.guide |
| Buttons/Install_Preferences_english | DOpus5:Buttons/Install_Preferences   |

If you'd like to write your own translation:

Catalogs/deutsch/Install.dopus5.cd  
 Catalogs/deutsch/Install.dopus5.ct  
 (I'd like to includem them in the Archive)

## 1.10 What you need to use Install.dopus5

### Screen size

If you have a small screen, the `replace requesters` could be to big. DOpus automatically cancels/skips such

```
requesters
. ARexx can't remark this.
```

But you: If in the output window appears the text `'[ASK ] bla'` and no

```
requester
appears asking you what to do with the file bla, you should
```

make a virtual screen that is big enough and try again.

OS

You need at least Kickstart/Workbench 2.1, but I've only tested it with 3.1. REXXMAST must be running of course, the needed libraries must be available.

DirectoryOpus

You need at least Directory Opus Magellan.  
 5.5 won't work as the command `'dopus send'` is missing.

Other files

rexxdossupport.library

Copyright (C) 1994-1997 by Hartmut Goebel, <hartmut@oberon.nbg.sub.org>

rexxtricks.library

Copyright (C) 1994,95 by Jürgen Kohrmeyer, <J\_Kohrmeyer@wilam.north.de>

version.pch (strongly suggested)

Copyright (C) 1997 by Urs Eprecht

All these files are included in this archive.

The directory DOpus5:System/

Locale settings file ENV:Sys/Locale.prefs

And of course a correct installation of almost all other files delivered in this archive. ↩

## 1.11 Features/Preferences/Buttons

This is the default button bank named 'DOpus5:Buttons/ ↩  
Install\_Preferences'  
if you haven't changed the path.

With it, you can control all features. Of course you are free to modify it.

Keep in mind: Some buttons are only for information. You can't click on them!

These are the buttons you can't press as they are only for information:

show Settings

Source

Destination

compare Icons

yes

write Comment

yes yes

!! Install !!

reset to ↩

Defaults

replace

yes yes

auto replace if...

same BaseName

auto replace

yes yes

Version higher

VersionDate ↩

higher

complete

yes yes

Size greater

FileDate higher

You can press the following buttons if you use your left Mouse button:

```

show Settings
 Source Destination compare Icons
yes
write Comment
yes

yes

!! Install !!

reset do defaults
replace
yes

yes
 auto replace if...
same BaseName
auto replace
yes

yes

Version higher

VersionDate higher
complete
yes

yes

Size greater

FileDate higher
You can press the following buttons if you use your right Mouse ↔
 button:

```

```

show Guide
 Source Destination compare Icons
no
write Comment
no

no

!! Install >libs: !!
 reset to defaults
replace
no

no
 auto replace if...
ignore BaseName
auto replace

```

---

```

no

no

ignore Version

ignore VersionDate
complete
no

no

ignore Size

ignore FileDate

```

## 1.12 show Settings

```

First it opens a window with the activated
functions
and then one with
the activated
criteriums
to
replace automatically
.

```

## 1.13 show Guide

Opens this AmigaGuide/Help/Documentation.

## 1.14 write Comment Source/Destination

```

Unfortunately, scanning a file for the
crc
and version, takes
some time. To make it faster for the second time, the
crc
and the version
string will be written into the files comment field. This can be
enabled (left mouse button) or disabled (right mouse button) for the
source
and for the
destination
. Don't forget to do this on read only file
systems!

```

```

Default: On for
source
and

```

destination

.

## 1.15 replace Source/Destination

If you want that under no circumstances a file gets written to either ↔

the

source  
or the  
destination

, you can force this with this option.

Use it if you have a read only file system!

Default: On for

source  
and  
destination

.

## 1.16 auto replace Source/Destination

If a file passes all tests enabled in the 'auto replace if...' ↔  
section,

eg. a file is definitely newer than the other, the older one will

automatically be replaced  
by the newer.

If you disable this feature, you will always be asked before something gets replaced. If you have disabled the

replace  
option for

-

source  
The  
requester  
hides the  
repl. Source  
button

-

destination  
The  
requester  
hides the  
repl. Dest  
button

-

source  
and  
destination  
The  
requester

```
won't be opened and the files are simply
skipped
```

```
.
```

Default: On for

```
destination
, off for
source
```

```
.
```

## 1.17 Replace Requester

The requester looks like that:

```
-----|
|Directory Opus | o |
|-----|
| Subpath [optional] |
Filename
Source: Path of the Source Lister
File Length bytes, File Time, File Date
Library Base Name Version.Revision (Version Date)
Version Comment [optional]
File Comment [optional]

Destination: Path of the Destination Lister
File Length bytes, File Time, File Date
Library Base Name Version.Revision (Version Date)
Version Comment [optional]
File Comment [optional]

repl. Dest
repl. Source
skip

```

## 1.18 ersetze Ziel

The file in the destination lister will be replaced by the file from source lister.

## 1.19 ersetze Source

The file in the source lister will be replaced by the file from destination lister.



## 1.20 auslassen

Neither the file in the source nor the file in the destination will be copied or overwritten.

## 1.21 complete Source/Destination

```

 If a file does not exist in
 source
 /
 destination
 , it will automatically be
copied from
 destination
 /
 source
 to
 source
 /
 destination
 .

```

```

Default: On for
 destination
 , off for
 source
 .

```

## 1.22 compare Icons

Not implemented yet.

It scans both icons and compares type, stack, default tool and tooltypes and will warn you, if there are differences. Icons are only completed or skipped for now.

You can enable this function by clicking with the left mouse button on the

```

 yes
 button to the right of the 'compare icons' field.

```

You can disable this function by clicking with the right mouse button on the

```

 no
 button to the right of the 'compare icons' button.

```

## 1.23 Enable 'compare Icons'

```

 Enables the
 compare Icons
 routine.

```

## 1.24 Disable 'compare Icons'

Disables the  
compare Icons  
routine.

## 1.25 !! Install !!

Starts the installation program,  
Install\_Startup.dopus5  
. You need a  
source  
and a  
destination  
or you have to give two extra  
parameters  
. Files

can be selected in

source  
or  
destination  
, it doesn't matter.

The program will open a new lister for both

source  
and  
destination  
so

that your original

source  
and  
destination  
won't get busy.

The new listers will be hidden immediately and closed before the program ends.

Depending on the functions you've set, a

requester  
will

ask you what to do.

It is possible to run this program several times at once.

You can stop it by pressing ctrl-c in the output window.

In the output window there are the following messages. They are always related to the filename that follows on the same line:

```
[REPL D] Replacing
 destination
 file.
```

```
[REPL S] Replacing
 source
 file.
```

```
[SKIP A] File has been skipped as the user selected
 skip
```

```
.
[COPY D] Copying file from
 source
 to
 destination
.
[COPY S] Copying file from
 destination
 to
 source
.
[SKIP D] The file would have been copied to
 destination
 if

 complete

 destination
 had been activated.
[SKIP S] The file would have been copied to
 source
 if
 complete

 source
 had been activated.
[SKIP=]
 Source
- and
 destination
 files are the same.
[SKIP.e]
 Icon compare routine
 would have been used if it were implemented.
[SKIP.] The files were not compared as they are icons and the

 icon compare routine
 is disabled.
[SKIPnr] As
 replace

 source
 and
 replace

 destination
 are disabled, the
files have been
 skipped
.
[ASK dD] Although the
 destination
 file should have been

 replaced automatically
, the user will be
 asked
```

---

```

 as it was delete protected.
[ASK dS] Although the
 source
 file should have been

 replaced automatically
, the user will be
 asked

 as it was delete protected.
[ASK] The user will be
 asked
 and he can choose between
 replace Destination

 replace Source
 and
 skip
 .
[ASK D] The user will be
 asked
 and he can choose between
 replace Destination
 and
 skip
 .
[ASK S] The user will be
 asked
 and he can choose between
 replace Source
 and
 skip
 .
[ASK ?] An unexpected case has occured and the file was
 skipped
 .

```

## 1.26 !! Install >libs: !!

This is an example button how you could use this program from ↔  
filetypes.

Look at

```

the arguments list of Install_Startup.dopus5
.

```

## 1.27 Internals

Multitasking/Ports

Parsing of the localized output of c:version full file

Command line options of Install\_Preferences.dopus5

Command line options of Install\_Startup.dopus5

## 1.28 Multitasking/Ports

There are seven tasks running at the same time and communication ↔  
over ports.

- DOINST.x Install\_Startup.dopus5  
Only runs before and after Install\_Main.dopus5
- DOINMN.x Install\_Main.dopus5  
Controls all other tasks
- DOINSS.x Install\_Scan.dopus5  
Scans source directory for files and dirs.
- DOINSD.x Install\_Scan.dopus5  
Scans destination directory for files and dirs.
- DOINVS.x Install\_GetID.dopus5  
Scans the source files for  
    crc  
    and version string.
- DOINVD.x Install\_GetID.dopus5  
Scans the destination files for  
    crc  
    and version string.
- DOINEX.x Install\_Execute.dopus5  
Copies and replaces the files told by the main program.
- DOINRQ.x Install\_Request.dopus5  
Opens the  
    requester  
    to find out which file you want to replace.

As this program completely multitasks, you don't need to answer the requester when it appears. The program will continue to work.

## 1.29 reset to defaults

Sets the default settings. These are

WRITECOMS

write Comment to source

on

WRITECOMD

write Comment to destination

on

REPLACES

replace files on source

on

REPLACED

replace files on destination

```

 on
NOAUTOREPLACES
 auto replace files on source

 off
AUTOREPLACED
 auto replace files on destination

 on
NOCOMPLETES
 complete source directory

 off
COMPLETED
 complete destination directory

 on
NOCICONS
 compare icons

 off
BASE
 compare BaseName
VERSION
 compare Version
SIZE
 compare FileSize
VDATE
 compare VersionDate
FDATE
 compare FileDate

```

### 1.30 Parsing of the localized output of c:version full file

The output of the version command is different in each country. Some examples:

Kickstart 40.70, Workbench 40.42 (18.02.1994) (Switzerland)

Kickstart 40.70, Workbench 40.42 (18-Februar-1994) (Italy)

Kickstart 40.70, Workbench 40.42 (02/18/94) (USA)

After starting my program, it checks wheter the ENV:sys/locale.prefs has changed. If yes, a parsing table is built and saved in DOpus5:System/Install\_Locale.prefs.

The program should understand all date formats! :-)

### 1.31 Functions

By pressing either yes (left mouse button) or no (right mouse button) in the column under the source or the destination button, you can either enable or disable the corresponding function.

write Comment  
replace  
auto replace  
complete

## 1.32 Source

By pressing either yes (lmb) or no (rmb) in the column under the source button, you can either enable or disable the corresponding  $\leftrightarrow$  function.

write Comment  
replace  
auto replace  
complete

## 1.33 destination

By pressing either yes (lmb) or no (rmb) in the column under the destination button, you can either enable or disable the corresponding  $\leftrightarrow$  function.

write Comment  
replace  
auto replace  
complete

## 1.34 Enable 'write Comment to Source'

Enables the  
write Comment  
routine for the  
source  
.

### 1.35 Enable 'write Comment to Destination'

Enables the  
write Comment  
routine for the  
destination  
.

### 1.36 Disable 'write Comment to Source'

Disables the  
write Comment  
routine for the  
source  
.

### 1.37 Disable 'write Comment to Destination'

Disables the  
write Comment  
routine for the  
destination  
.

### 1.38 Enable 'replace File on Source'

Enables the  
replace File  
routine for the  
source  
.

### 1.39 Enable 'replace File on Destination'

Enables the  
replace File  
routine for the  
destination  
.

### 1.40 Disable 'replace File on Source'

---



Disables the  
replace File  
routine for the  
source

.

#### **1.41 Disable 'replace File on Destination'**

Disables the  
replace File  
routine for the  
destination

.

#### **1.42 Enable 'auto replace File on Source'**

Enables the  
auto replace File  
routine for the  
source

.

#### **1.43 Enable 'auto replace File on Destination'**

Enables the  
auto replace File  
routine for the  
destination

.

#### **1.44 Disable 'auto replace File on Source'**

Disables the  
auto replace File  
routine for the  
source

.

#### **1.45 Disable 'auto replace File on Destination'**

Disables the  
auto replace File  
routine for the  
destination

.

---

## 1.46 Enable 'complete Source Directory'

Enables the  
complete Directory  
routine for the  
source  
.

## 1.47 Enable 'complete Destination Directory'

Enables the  
complete Directory  
routine for the  
destination  
.

## 1.48 Disable 'complete Source Directory'

Disables the  
complete Directory  
routine for the  
source  
.

## 1.49 Disable 'complete Destination Directory'

Disables the  
complete Directory  
routine for the  
destination  
.

## 1.50 auto replace if...

If every of the following criteriums

same BaseName

Version higher

VersionDate higher

Size greater

FileDate higher  
is either true or disabled, Install.dopus5

---

automatically replaces  
 the  
 older file if this function is enabled, otherwise it opens a  
 requester  
 if  
 the  
 replace  
 function is enabled, otherwise it skips the file.

## 1.51 same BaseName

If this function is enabled, Install.dopus5 will check wheter both ↔  
 file have  
 the same BaseName. If not, no file will  
 automatically be replaced

Default: On.

Example:

```
> version libs:cybergraphics.library full file
cybergraphics.library 40.107 (25.02.1997) © by Vision Factory Development
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

This is the BaseName (the string in front of the version number)

## 1.52 Version higher

If this function is enabled, Install.dopus5 will check the version ↔  
 numbers.  
 If both files have the same  
 version  
 but not the same  
 crc  
 , a  
 requester  
 will  
 ask you what to do.  
 If one file has the higher  
 version  
 and the other  
 criteriums  
 are either true or  
 disabled, the file will automatically replace the older if  
 auto replace  
 is enabled.

Default: On.

## 1.53 VersionDate higher

If this function is enabled, Install.dopus5 will check the version date

.

If both files have the same version date but not the same crc, a requester will ask you what to do.

If one file is newer and the other criteriums are either true or disabled, the file will automatically replace the older if auto replace is enabled.

Default: On.

## 1.54 Size greater

If this function is enabled, Install.dopus5 will check the file sizes

.

If both files have the same size date but not the same crc, a requester will ask you what to do.

If one file is bigger and the other criteriums are either true or disabled, the file will automatically replace the smaller if auto replace is enabled.

Default: On.

## 1.55 FileDate higher

If this function is enabled, Install.dopus5 will check the filedates

.

If both files have the same age but not the same crc, a requester

will ask you  
what to do.  
If one file is newer and the other  
criteriums  
are either true or disabled,  
the file will automatically replace the older if  
auto replace  
is  
enabled.  
Default: On.

### 1.56 ignore FileDate

Disables the  
higher FileDate criterium  
.

### 1.57 ignore VersionDate

Disables the  
higher VersionDate criterium  
.

### 1.58 ignore Size

Disables the  
greater Size criterium  
.

### 1.59 ignore Version

Disables the  
higher Version criterium  
.

### 1.60 ignore BaseName

Disables the  
same BaseName criterium  
.

---

## 1.61 Command line arguments of Install\_Startup.dopus5

PORT/A, SOURCEHANDLE/A, DESTINATIONHANDLE/A, PREFSFILE/A, FILE, DESTINATION

PORT - {Qp} (Directory Opus Port, required)  
 SOURCEHANDLE - {Ql} (current source lister handle)  
 DESTINATIONHANDLE - {Qd} (current destination lister handle)  
 PREFSFILE - DOpus5\System\Install\_Main.prefs, required  
 FILE - {o} only needed if you use it from a popup menu  
 DESTINATION - eg 'libs:' only needed if you use it from a popup menu  
 in this case, a destination lister is not required

## 1.62 Command line arguments of Install\_Preferences.dopus5

PORT/A, PREFSFILE/A, SHOWSETTINGS/S, WRITECOMS/S, WRITECOMD/S, REPLACES ↔  
 /S,

REPLACED/S, AUTOREPLACES/S, AUTOREPLACED/S, COMPLETES/S, COMPLETED/S, CICONS/S,  
 SIZE/S, FDATE/S, VDATE/S, BASE/S, VERSION/S, NOWRITECOMS/S, NOWRITECOMD/S,  
 NOREPLACES/S, NOREPLACED/S, NOAUTOREPLACES/S, NOAUTOREPLACED/S, NOCOMPLETES/S,  
 NOCOMPLETED/S, NOCICONS/S, NOSIZE/S, NOFDATE/S, NOVDATE/S, NOBASE/S, NOVERSION/S

PORT - {Qp} (Directory Opus Port, required)  
 PREFSFILE - DOpus5\System\Install\_Main.prefs, required  
 SHOWSETTINGS - Shows the current settings in a requester

You can use all of the following arguments for Install\_Preferences ↔  
 .dopus5

with the prefix 'NO' to disable the corresponding option:

WRITECOMS

-

Write comment  
 to  
 source  
 directory

WRITECOMD

-

Write comment  
 to  
 destination  
 directory

REPLACES

-

Replace files  
 on  
 source  
 directory

REPLACED

-

Replace files

---

on  
destination  
directory

AUTOREPLACES  
-  
Auto replace files  
on  
source  
directory

AUTOREPLACED  
-  
Auto replace files  
on  
destination  
directory

COMPLETES  
-  
Copy files  
to  
source  
directory

COMPLETED  
-  
Copy files  
to  
destination  
directory

CICONS  
-  
Compare icons

SIZE  
- One file must be bigger than the other to auto replace the ↔  
other

FDATE  
- One file must be newer than the other to auto replace the ↔  
other

VDATE  
- One file must be newer than the other to auto replace the ↔  
other

BASE  
- The base name must be the same to auto replace the other

VERSION  
- The file must have a higher version to auto replace the other

---

## 1.63 crc

The  
crc  
is a 32 bit checksum. It's calculated by reading every byte of a ↵  
file  
and adding them in a certain way. It's save to assume that two files with the  
same name, size and  
crc  
are the same.  
As comparing byte for byte in ARexx would take a lot of time, it's much faster  
to have a library calculating the  
crc  
. And if  
write Comment  
is enabled,  
the program will be much faster the second time you use it on the same files  
as the  
crc  
is already calculated and can be read from the file's comment.  
As some program (CynnusEd, ...) are saving files by keeping the comment line,  
the  
crc  
must be verified with the AmigaDOS filedate and the filedate that  
was written to the comment field with the  
crc  
and the version string.  
That's why there are always 16 hex characters in the comment and not only the  
8 characters for the  
crc  
.

---