

Interfaces

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REVISION HISTORY

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Chapter 1

Interfaces

1.1 Interfaces.guide

AmigaOberon System Interfaces 40.15 Oberon 3.6

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This archive holds the AmigaOberon Interfaces for AmigaOS 3.1 (V40), based on includes V40.15, Oberon Version 3.6.

The complete and unchanged archive may be freely distributed for use with AmigaOberon only. Please consult the AmigaOberon manual for detailed licence.

NOTE

The numbering scheme has been changed to reflect the original include version and the Oberon version has been added. So Interfaces 40.15 Oberon 3.x are successors of the previously released Interfaces 40.17.

Installation

Release notes

Change list

Bug Reports

Literature

adapting the modules

where to send them

Warranty

=====

I've done my best to remove all recently known bugs and convert the includes as good as possible. But remember:

No Warranty

THE MODULES AND PROGRAMS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF ANY MODULE IS ASSUMED BY YOU.

1.2 Interfaces.guide/BugReports

Where to send Bug-Reports

When you find any bugs, please mail them to:

interface-bugs@oberon.nbg.sub.org

Your report will then be added to the bugs database automatically and you'll get a receipt notification. PLEASE use this service to make sure every report reaches me! I may miss reports posted to news groups (I read only very few of them).

+++hartmut

1.3 Interfaces.guide/Installation

Installation

ATTENTION

Please use 'recomp3_10.lst' for AmigaOberon V3.10/3.11 (and probably higher) since there have been some changes in the module compilation order.

I heard some guys had had problems since the module Objects.mod couldn't be found, even it is on my original v3.11 disks. If you don't have this module, just delete the one line in recomp3_10.lst.

NOTE

Due to changes in the Interfaces you may have to do some changes in standard modules which come with AO 3.0+. See List of Changes to do below.

For re-compiling all modules use the brand new Installer script or proceed as follows

```
;
; activate you Oberon environment
;
assign AO_INSTALL_MODULES:      Oberon:Module      ;or wherever they are
assign AO_INSTALL_INTERFACES:  Oberon:Interfaces  ; - " -
cd Oberon:                      ;or wherever you module's sym/ and obj/ dirs ←
are
lha x Interface38,108 *.mod AO_INSTALL_INTERFACES:/ ; mind the backslash
residentmanager reset
delete sym/#? all quiet force ; old sym are obsolete
Oberon <recomp.lst             ; or recomp3_10.lst'
```

```
Oberon -a <recomp.lst      ; or recomp3_10.lst'
Oberon -md <recomp.lst     ; or recomp3_10.lst'
Oberon -mad <recomp.lst    ; or recomp3_10.lst'
```

The script is not able to recompile the LibOberonLib modules. If you need them, please proceed as follows:

```
cd Oberon:LibLink
oberon -md SET LibLink AO_INSTALL_MODULES:OberonLib
oberon -mad SET LibLink AO_INSTALL_MODULES:OberonLib
rename obj/OberonLib.objs obj/LibOberonLib.objs
rename obj/OberonLib.objsa obj/LibOberonLib.objsa
```

1.4 Interfaces.guide/ChangeList

List of Changes to do in the Modules

This is a list of changes to be done in the original AmigaOberon modules to work together with the current version of Interfaces. Please check whether this changes still have to be done to the version of modules you have. No guaranty can be give for the completeness and/or correctness of this list.

Note for AO 3.10

The files NoGuruRq.mod and BreakRq.mod are obsolete, so don't hesitate to delete them. They are now generated out of NoGuru.mod respectively Break.mod by setting a compiler switch.

Changes for 40.15/3.4

=====

Alerts.mod

replace every occurenc of RawDoFmt() through OldRawDoFmt()

FileReq.mod

remove the '#NIL' behind asl.AslRequestTags(...)

io.mod

- exchange the one occurrence of STRPTR through LSTRPTR.
- replace every occurenc of RawDoFmt() through OldRawDoFmt()

Display.mod

You MUST NOT change the type STRPTR, since this would lead to big trouble (see warning below). Instead change the tree assignments like nw.title := win.title; into nw.title := sys.ADR(win.title^);

1.5 Interfaces.guide/ReleaseNotes

Release Notes

V 40.15/3.6

=====

All left-over userData fields/parameters are now Exec.APTR instead of LONGINT for greater flexibility, too. This concerned Dos.NotifyRequest.userData, Intuition.IClass.userData, Workbench.AppMessage.userData and all Workbench.AddApp**() procedures.

* Exec

- two new identifiers which should be passed to lib-call parameters of type ARRAY OF CHAR:

NILSTR

for omitting the string

EMPTYSTR

for passing an EMPTY string

This has be done to improov portability from/to Oberon-A.

* Graphics

- BitScaleArgs.flags corrected to LONGSET instead of LONGINT

* Intuition

- ClassPtr corrected to be a synonym to IClassPtr, not for ClassPtr itself :-o

* Locale

- nospace renamed to noSpace (suggested by Thomas Igracki)

* LowLevel

- removed ident typeGameCtrl which was erroneous introduced by me (reported by Albert Weinert)

* Utility

- gosh, there where syntax errors due to tippos (reported first by Mario Kemper)

* Trackdisk

- removed a long undiscovered tippo

Older versions

V 40.15/3.5

V 40.15/3.4

V 40.15/3.3

V 40.15/3.2 (was 40.17)

V 40.15/3.1 (was 40.16)

V 40.15/3.0 (was 40.15)

V 40.5

V 39.108

1.6 Interfaces.guide/V40-15-3-5

V 40.15/3.5

=====

* Intuition

- exported screenHires again (seems to be usefull :-)
- IClass.reserved and Object.node are no longer exported
- fixed flag values for AllocScreenBuffer() (reported by Andreas Raquet)
- changed flags for ScreenDepth() into sets, thereby correcting the values
- renamed sysIsSize... to sysisize... (sorry, typo)
- PointInImage() should expect Graphics.Point as first Parameter, but changing the paramter's type would have lead to the address been moved into the register instead of the value itself (Point is a stuctured type). Thus the direct LVO call has been renamed to PointInImageL() and a new stub routine PointInImage() takes Graphics.Point as first parameter and hides the type-cast.

* Classface

- CoerceMethod(A) didn't return a result
- Added some aliasas for ignoring results (the 'M' of method is lowercase)
- ObjectPtr (as argument for all procedures) is now Exec.APTR, since most times you have to cast or use odd things like SYSTEM.ADR(foo^).

* Locale

- Added some missing definitions like LocaleBase and calendar types. This slipped through since I hadn't had the includes the very first version was derived from.
- Removed a definition which sould not be there :-)

* Graphics

- ObtainPen()'s last parameter is now correctly flags: LONGSET
- TextExtent() is now defined correctly

* RealTime

- Conductor.flags is not correctly defined as SET

* Utility

- New procedures Bool2Long() and Long2Bool() for easy converting boolean tags
- Second parameter of TagInArray() and FilterTagItems() is now ARRAY OF TagID, TagInArrayA() has been removed. After reading the autodocs another time it showed up that this are no arrays of TagItems but arrays of TagIDs.

1.7 Interfaces.guide/V40-15-3-4

V 40.15/3.4

=====

- Graphics.Layer fields are now read-only ([Libs3] p.704)
- Narrator.Mouth.shape is now read-only
- new type Utility.AsmHookFunc for easier casting
- Exec.SINGLE changed from LONGREAL to LONGSET to avoid intermix, constants in MathIEEESingBas.mod are now casted to Exec.SINGLE

1.8 Interfaces.guide/V40-15-3-3

V 40.15/3.3

=====

- optimized Graphics.SaveSetWriteMask() (register parameters)
- Utility.HookEntry() returns Exec.APTR;
- Intuition.BuildEasyRequestArgs() passed arg1 in wrong register
- Dos.SetMode() returns BOOLEAN (according to autodocs)

1.9 Interfaces.guide/V40-15-3-2

V 40.15/3.2 (was 40.17)

=====

- Bad, bad: Exec.mod had had no module body if compiled for AmigaOberon 3.10+. Fixed.
 - Dos.CSource.buffer is now Exec.LSTRPTR, too.
-

1.10 Interfaces.guide/V40-15-3-1

V 40.15/3.1 (was 40.16)

=====

- Commodities: PFT renamed to PFL
- Dos.Fault() now returns LONGINT
- IFFParse: errMamgled renamed to errMangled
- Printer: Bugs in PrinterData and DeviceData removed
- Workbench.WBArguments is now
ARRAY MAX(LONGINT) DIV Size(WBArg) -1 OF WBArg;

1.11 Interfaces.guide/V40-15-3-0

V 40.15/3.0 (was 40.15)

=====

- all (* char) are now Exec.LSTRPTR !!!
BEWARE: do not allocate a pointer of this type, since this will
try allocate 2GB of memory
do not dereference except for VAR parameters and for
procedures where \$CopyArray- is set.
See note above for changes in standard modules.
- to improve date/type safety a lot of record/struct
fields are marked as read-only or are not longer exported. E.g.
in modules ASL, ConUnit, Config, Datatypes, DiskFont, Dos, Exec,
Graphics, RealTime, ...
- checked all imports whether they are marked if used in interface
(e.G. SYSTEM)
- includes Albert Weinerts 'Classface' package (originally named
'Boopsi')
- includes Martin Honeffers 'RVI' package (for rexxvars)
- all modules terminate with HALT(20) now if OpenLib() fails
- a lot of small procedures now got register parameters for better
code

Dos

- new type DeviceListAPtr, DevInfoAPtr, DosListAPtr

Exec

- bug with StackSwap() removed
- new type LSTRPTR

Commodities.mod

- bug removed with constants duplicate, notify, unique
- removed CxFilter (obsolete)

GadTools

- new constant value: 'noList' for short list locking (see RKMs)

Gadgets

- new Proc: CloseColorWheel()

Graphics

- new PROCEDURE GetOPen synonym for consistency with SettOutlinePen/SetOPen

InputEvent

- InputEvent is now only a dummy base type

Intuition

- OpGet.storage is now pointer to Exec.ADDRESS
- bug removed: SetScreenposition()-Flags

Utility

- new type HookFunc
- new PROCEDURE GetTagDataP(A) --- nachsehen
- introduced TagListPtr (more security and comfort)
- removed bug in SMult32 UMult32

Workbench

- Type WBArguments is now ARRAY MAX(INTEGER) OF WBArg (was ARRAY 256)

1.12 Interfaces.guide/V40-5

V 40.5

=====

Added interfaces

- CDDevice.mod (original name is devices/cd.h but CD.mod would be to short)
- LowLevel.mod
- NonVolatile.mod
- RealTime.mod

Renamed DataTypes.mod to Datatypes.mod (was tippo)

Removed interface DTClass.mod:

this is was originally a prototype for DTClass and is not usable in Oberon this way.

1.13 Interfaces.guide/V39-108

V 39.108

=====

- all names of libs, devices etc. are now exported constants
- removed some tippos
- optical clean up

Dos

- introduced type 'ArgsStruct' and some additional types to improve type safety for ReadArg().
- ReadArgs() now wants this type as parameter, OldReadArgs() still has old parameters.

Exec

- new type LONGBOOL and consts LTRUE, LFALSE since used in different interfaces
- RawDoFmt() now returns e.APTR, OldRawDoFmt returns nothing

Intuition

- some u.TagItemPtrs are now u.TagListPtrs for easier handling (e.g. in boopsi messages).
- MakeScreen, RemakeDisplay and RethinkDisplay now return LONGINT; Oldxxx still return nothing
- OldActivatedWinodw() removed (unnecessary).

Locale

- constant identifiers now start with lower case characters
- clean up

Utility

- new type 'TagListPtr' to improve handling of Taglists
- some functions return TagListPtr instead of e.ADDRESS;

Added interfaces

AmigaGuide.mod (supplied by Lars Düning)
 Bullet.mod
 CardRes.mod
 DTClass.mod
 DataTypes.mod
 Gadgets.mod
 Prefs.mod
 Sana2.mod (supplied by Nicolas Benezan [bene])

1.14 Interfaces.guide/Literature

Literature

[Libs3]

RKM Libraries, 3rd Edition

[Devs3]

RKM Devices, 3rd Edition
