

# **SystemFiles**

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**COLLABORATORS**

	<i>TITLE :</i> SystemFiles		
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# Chapter 1

# SystemFiles

## 1.1 SystemGuide v1.0

```
*****  
*** SystemGuide ***  
*****  
Version 1.0
```

A comprehensive reference guide to Amiga software system files.  
Compiled by Dan Elgaard.

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Introduction

Legal Stuff

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## 1.6 introduction

### Introduction

-----

After buying my Amiga, I soon got REALLY tied of all those requesters saying "Program need XXX.library", "Couldn't find XXX.library" etc, etc.

So I started filling my LIBS: with all the Libraries I could get my hands on, frequently updating to the latest versions. That way I didn't have to worry whether a program needed this or that Library, they where allways available.

BUT, soon my LIBS: had reached the size of more than 3MB, containing more than 100 Libraries! Arrrgh, what Libraries did what ? Which programs need, which Libraries ? Which Library can I use to what ? What version exists ? Etc, etc, etc...

I tried to give each Library a little explaining comment using the Shell FileNote command, BUT :-)

Then one day, there was a cold wind comming from the west, a storm was

---

building up outside, etc etc, etc. I love using etc's :-)

I got my hands on a list of Libraries compiled by Gregory M. Stelmack. Great, I used it, added to it, updated it, etc, etc, etc.

Soon it got somewhat messy, but I could allway find out what a Library was doing, where I got it, versions, etc, etc, etc.

Then Commodore did something nice. They gave us \*\*\* AmigaGuide \*\*\* !!!

I started to make my Library-list into AmigaGuide-format, and while doing this, a thought came to me: Maybe there are other out there, who could use my "LibraryGuide" ?

So I released my "LibraryGuide" to the public via the Fred Fish Serie. It was a tremendous success :-)

I got great respons from people, who gave lots of new Inputs (and lots of error corrections :-))

While adding to the original "LibraryList" by Gregory M. Stelmack, I also started to keep track of my Device-files and Handler-files on two other sepearate lists, and shortly after I found out what great a success my "LibraryGuide" had become, I released the two lists as "DeviceGuide" and "HandlerGuide".

With this trilogy of Guides I really began getting letters of useful information for the Guides, thus giving me a hard time keeping pace with the typing and releases of all 3 Guides.

For a long time I played in my mind to make ONE BIG SUPER GUIDE, which should hold all 3 Guides in one complete Guide.

Then I started getting letters asking me to make a "FileSystemGuide", and that made me take the big step.

I merged the 3 original Guides into one and added a "FileSystem"-section to it. Finally I changed the name to "SystemGuide" and shipped a beta-version to the ones, that had supported the original Guides most, asking them for ideas and opinions.

Here you have it: The "SystemGuide" !!!

Dan Elgaard

## 1.7 explanation

Explanation

-----

To make things easy I have supplied a little explanation for each of the four SoftWare-types:

Devices

FileSystems

Handlers

Libraries

## 1.8 Explanation

---

Explanation  
-----

DEVS: is a drawer on WorkBench used to store Device files.  
 These are typically used to control various pieces of HardWare, but  
 are otherwise fairly similar to Libraries.  
 Like the  
     Libraries  
     , they are there to save the programmers writing  
 extra code.  
 More importantly, they let different programs access the same  
 HardWare, without each program having its own set of driver routines.  
 The most common complaint that new users come up with, is that a  
 program will not print out. This can be due to not choosing the right  
 PrinterDriver, but if the Amiga cannot find the  
     Printer.device  
     file  
 in the DEVS-drawer, no printing can be achieved.  
 Some Devices are extremely odd and limited.  
 The most obscure are the  
     Scala.device  
     , found only on that program.  
 As well as being huge (over 100Kb), it usually only work with one  
 version of Scala. It don't even control HardWare!  
 This sort of Device file is very much the exception to the rule that  
 DeviceDrivers are for controlling HardWare.  
 BTW: A working tutorial on Devices can be found on Fred Fish N\textdegree{} ←  
 113.

## 1.9 Explanation

Explanation  
-----

An explanation for a FileSystem !!!

Well, what is there to say: Its a SYSTEM to FILE things :-)

It is ways to tell you Amiga how to store data on various storage media.

Some of the FileSystems comes with the System SoftWare and dosn't need  
 to be mounted (normally), but a lot has been written over the years and  
 those need to be mounted to let the system know they are in use.

FileSystems are normally located in the L: drawer/unit.

Read the "Doc"-file for each FileSystem to get more infomation.

## 1.10 Explanation

Explanation  
-----

L: is a directory on Workbench and many other disks. It is used mainly

---

to store Handlers.

Handlers is somewhat of a

Device

-driver, but with some differences:

1)

Device

-drivers normally support Hardware, Handlers normally support Software.

2) Handlers also normally is the one that actually make the connection between a program/AmigaDOS and a

Device

-driver itself.

3)

Device

-drivers can normally be used by many program, a Handler can normally be used by a single program/unit only.

Say we want to Mount the AmigaDOS unit SPEAK:, which as far as AmigaDOS concern is a hardware unit...

-AmigaDOS is software, so if we look at rule N\textdegree{} 1 it needs a Handler ↔

.

-SPEAK: is hardware, so follow the same rule it needs a

Device

.

-So far we have: AmigaDOS -> ????? Handler -> ????????

Device

-> SPEAK:

-The

Device

-driver for SPEAK: is

Narrator.device

.

-How do I know that ? Well, I just look in the

Devices

-section :-)

-Now we have: AmigaDOS -> ????? Handler ->

Narrator.device

-> SPEAK:

-If we look at rule N\textdegree{} 2, we need something to make the link between AmigaDOS and the

Device

-driver, namely a Handler! Ta Daa!

-What Handler do we need ?

-Look at rule N\textdegree{} 3: a Handler normally only work with one special ↔ unit.

-What unique Handler do we need for the SPEAK: unit ?

-Fortunately Handlers normally are named after their purpose. So in this case it must be the  
     SPEAK-handler  
     .

-This gives:    AmigaDOS ->  
                   SPEAK-Handler  
                   ->  
                   Narrator.device  
                   -> SPEAK:

-BINGO! Here we have it! The Handler in a nut-shell! Normally :-)

-There is however another way to find out, which Handler we need!

-????

-Yes, just use this "SystemGuide" :-)

Another example are:

```

    AmigaDOS ->
    AUX-Handler
    ->
    Serial.device
    -> AUX:
  
```

Or what about:

```

    "KeyMacro" ->
    KeyMacro-Handler
    ->
    Keyboard.device
    And a little special one:

    AmigaDOS ->
    PIPE-Handler
    -> AmigaDOS
  
```

Remember, a Handler supports software and AmigaDOS is software.

## 1.11 Explanation

-----  
                   Explanation

LIBS: is a drawer that's found on Workbench, and many other disks besides. It's used to store Libraries.

A Library, as far as Amigas are concerned, is a set of little programming routines organised into one complete block.

Lot of them are built into the machine, but even more are to be found in the LIBS-drawer.

A programmer will often make use of a Library, in order to avoid

---

some code writing.

Most cannot be bothered to write their own File requester. So they use a Library like the

ReqTools.library

. If the Library isn't

included in the LIBS: the program won't run!

Libraries are programs, copyrighted just like others.

If you are a programmer, always get permission before you use someone else's Library, unless it's a freeware Library that can be used by one and all.

And if you program your own Library, DON'T give it a name that some Library already have!!!

BTW: A working example to make a shared Library is on Fred Fish N\textdegree{} ←  
79.

## 1.12 tutor

Tutor  
-----

This Guide is really simple to use.

If you have a System-file and want to see if you have the latest available version, just click on the System-file-type on the front screen and you will be given a list of all known System-SoftWare of the type you have requested.

Now find the desired System-file in the list and check the version-number, which is written just to the right of the System-file.

If you want to find out more about a System-File, just click on it's name, and you will be given informations about what it does/can/is used for, where to get it, who wrote it, etc, etc, etc.

That is, if I have been able to find out, obvious.

I have tried to make as many cross-references as possible, so it should be real easy to find your way around the Guide.

NOTE: It is not always possible for me to find out where/how to get the latest/newest version of a System-file, so the version-number in this guide, and the version you get, if you follow my Guide to get it, may not be the same.

People sending me new System-files, doesn't always tell me where or how to get that specific version. Sorry, about that :-)

## 1.13 Tutor

Tutor  
-----

This Guide is really simple to use.

If you have a Device-file and want to see if you have the latest available version, just find the Device-file in the device-list and check the version-number, which is written just to the right of the DeviceDriver-file.

If you want to find out more about a Device, just click on it's name, and you will be given informations about what it does/can/is used for, where to get it, who wrote it, etc, etc, etc. That is, if I have been able to find out, obvious.



I have tried to make as many cross-references a possible, so it should be real easy to find your way around the Guide.

NOTE: It is not allways possible for me to find out where/how to get the latest/newest version of a Device, so the version-number in this guide, and the version you get, if you follow my Guide to get it, may not be the same.

People sending me new Devices, dosn't allways tell me where or how to get that specific version. Sorry, about that :-(

## 1.14 Tutor

Tutor

-----

This Guide is really simple to use.

If you have a FileSystem-file and want to see if you have the latest available version, just find the FileSystem-file in the FileSystem-list and check the version-number, which is written just to the right of the FileSystem Driver-file.

If you want to find out more about a FileSystem, just click on it's name, and you will be given informations about want is does/can/is used for, where to get it, who wrote it, etc, etc, etc. That is, if I have been able to find out, obvious.

I have tried to make as many cross-references a possible, so it should be real easy to find your way around the Guide.

NOTE: It is not allways possible for me to find out where/how to get the latest/newest version of a FileSystem, so the version-number in this guide, and the version you get, if you follow my Guide to get it, may not be the same.

People sending me new FileSystems, dosn't allways tell me where or how to get that specific version. Sorry, about that :-(

## 1.15 Tutor

Tutor

-----

This Guide is really simple to use.

If you have a Handler-file and want to see if you have the latest version, just find the Handler-file in the Handler-list and check the version-number, which is written just to the right of the Handler.

If you want to find out more about a Handler, just click on it's name, and you will be given informations about want is does/can/is used for, where to get it, who wrote it, etc, etc, etc. That is, if I have been able to find out, obvious.

I have tried to make as many cross-references a possible, so it should be real easy to find your way around the Guide.

NOTE: It is not allways possible for me to find out where/how to get the latest/newest version of a Handler, so the version-number in this guide, and the version you get, if you follow my Guide to get it, may not be the same.

---

People sending me new Handlers, doesn't always tell me where or how to get that specific version. Sorry, about that :-)

## 1.16 Tutor

Tutor  
-----

This Guide is really simple to use.

If you have a Library and want to see if you have the latest version, just find the Library in the Library-list and check the version, which is written just to the right of the Library.

If you want to find out more about a Library, just click on it's name, and you will be given informations about what it does/can/is used for, where to get it, who wrote it, etc, etc, etc. That is, if I have been able to find out, obvious.

I have tried to make as many cross-references as possible, so it should be real easy to find your way around the Guide.

NOTE: It is not always possible for me to find out where/how to get the latest/newest version of a Library, so the version-number in this guide, and the version you get, if you follow my Guide to get it, may not be the same.

People sending me new Libraries, doesn't always tell me where or how to get that specific version. Sorry, about that :-)

## 1.17 future

Future  
-----

I will continue to update this Guide, simply because it is in my own interest to keep track of the Amiga System Files (especially my Libraries), but I will not release it just because there have been a minor change to one or two of the Libraries or Devices.

Every now and then when the Guide has gone through some updates, I will release it.

Check out the

Updates

-NODE to find out how to get the newest version of the "SystemGuide".

If you have some contribution to this Guide, I would like to hear from you. That could be newer versions, new Libraries or other System Files, error corrections, informations yet unknown, etc, etc, etc.

My address: Dan Elgaard  
Gestvej 5  
6270 Tønder  
Denmark

## 1.18 legal stuff

---

## Legal Stuff

-----

Disclaimer

Copyright

Distribution

Credits

Contributors

### 1.19 disclaimer

Disclaimer

-----

This Guide is provided 'as is' without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranty of the specific Device, FileSystem, Handler or Library itself.

Though every care has been taken to make this Guide bug/error-free, the entire risk as to the results, reliability and performance of using any Device, FileSystem, Handler or Library based on the informations in this Guide is assumed by you.

### 1.20 copyright

Copyright

-----

This Guide is 'FreeWare'.

It can be freely copied and distributed for non-commercial purposes, provided that no file is added to or removed from the distribution archive and no charge, beside a nominal fee, is requested.

Nevertheless the Guide remains COPYRIGHT of the author. you cannot in anyway modify the Guide, or any other file found in the distribution archive except where explicitly allowed.

This does not apply for the Icon-file ("SystemGuide.info"), which you can modify, change or replace as you please.

Furthermore you cannot embed the Guide in any other SoftWare, without the written permission of the author.

### 1.21 distribution

### Distribution

---

Compressing is allowed for personal use, but not for distribution. LhArc'ing in an archival form is explicitly allowed for distribution convenience.

Furthermore you cannot embed the Guide in any other SoftWare, without the written permission of the author.

## 1.22 credits

### Credits

---

Here's some credits, to the ones that have helped me making this "SystemGuide" possible.

This is some general Credits.

The

Contributors

to my work and this "Guide", has got their own NODE, which is called

Contributors

:-)

Of cause the first must go the Gregory M. Stelmack, who where the first to try to compile a full list of Amiga-Libraries, so we all had a chance to find our way around the Library-Jungle.

Without his "LibraryList" I wouldn't have been inspried to start making the "LibraryGuide", and eventually this "SystemGuide".

The second credit must go to all the

Contributors

to this guide.

You can find a list of them in the

Contributors

-NODE :-)

The next goes to my wife, for her hours-of-hours patience, while I'm spending hours-of-hours in front of my Amiga :-)

Last the Major-Credit goes to Commodore for giving us the Amiga.

## 1.23 contributors

### Contributors

---

Here is my credit list to the one's, that have helped me making this "Guide" possible, both with new System-files, additional informations and some error-corrections:

Willi P. Burkhardt (Schweiz),      Werner Ammann (Schweiz),

---

Marco Dalla Vecchia (Italy),           John de Kruyf (Holland),  
Lars Knudsen (Denmark),           Jorma Metso (Sweden),  
Simon Dick (England),           Liam Mac Mullan (Ireland),  
Simon Albert (Germany),         Armin Pigulia (Germany),  
Thomas Strauß (Germany).

Thank you very much...

Dan Elgaard

P.S. The order is randomly, except for Willi P. Burkhardt, who where the first to ever mail me with contributions.

## 1.24 authors

Authors  
-----

Lots of people have written me asking if I could include the adress of the authors or companies, that have written the System-files, like a Library or a Device.

So far I must say No!

Until now I have hard time just keeping pace with all the new System-files, new versions, error corrections, updates, etc, etc, etc, that people are sending me, that it would require too must of my time to make a list of the authors too. Remember that many addresses can be old ones, and I will have to check addresses, change addresses, delete addresses, time after time and I don't even think that such a list will be really up-to-date for very long.

Right now there is about 300 authors/companies to update in this Guide!

But maybe it was something of an idea for another: To make what could be an "AuthorGuide" containing names and addresses of the most popular and known PD/Commercials authors and companies.

If you want the address of an author or company from my Guide you will have to get the package from the source mentioned, like Fred Fish and read the address in the "Doc"-file or whatever.

## 1.25 Help

Help  
-----

This "Guide" will not survive without YOUR help!

If you have any System-files not mentioned in this "Guide", newer versions or if you spot an error (impossible), please mail me and let know.

If you send me new System-files on diskette, please include the whole package with doc's, includes and so on, or tell me how to get it.

If you have any commercial System-files not mentioned, mail it to me, and I will check it out, find out the version, the author, its purpose, how to use, etc, etc, etc.

You have my word, that I will not spread it, and after I'm finish with

it I will delete it, if you tell it's a commercial Library, or whatever.

If you mail me a list of System-files, either on paper or as an ASCII-text-file on diskette, please put in groups (Devices, Handlers, etc), and you would help me a LOT if you write them down in alphabetical order.

By the way: I will not be returning floppy-disk unless you are in for an

```
Update
. Check out the
Updates
-NODE.
```

And I'm not able to read High-Density-Disks :-(

## 1.26 updates

### Getting Updates

-----

When ever I get a new version of the "SystemGuide" finished, I will mail it to the Fred Fish AmigaLib PD-Serie (What a name!!) and you can get the latest version from that source.

There is however a number of people, who just can't wait and write me to get me to send them a copy of the latest version.

I've had so many responses on my Guide-Series, that it as turned into a very expensive outcome, shipping disks with the newest versions, to all there is sending me a letter.

You can still write me to send you a copy of the newest update, but in the future I'll only be sending direct updates to the ones that ship me a floppy-disk (Not High-Density) to copy the Guide on to and something to cover the price of a stamp (maybe an extra disk or what ever).

Note that the "SystemGuide" is still FREEWARE, and this is only to cover my expences.

Ofcause if you WANT to give a donation you are welcome ;-))

See the

```
Future
-NODE to get my address.
```

## 1.27 history

### History

-----

To fullfill the history of the "SystemGuide", I have also included the history of the 3 orginal Guides, "DeviceGuide", "HandlerGuide" and the notorious "LibraryGuide".

To get a full view of the history of this whole "SystemGuide"-project, it is advised to read the

```
Introduction
-NODE too.
```

History of the "SystemGuide".

```
-----
v0.99b   Not a public release. Just a beta-release.

v1.0     First public release. Contains 546 Systems-Files.
```

```
DeviceGuide History

HandlerGuide History

LibraryGuide History
```

## 1.28 deviceguide history

```
-----
DeviceGuide History
-----
Version

1.0      First Public release.

1.1      Second Public release.
The "DeviceGuide" now contains 32 Devices.

1.4      Third version. Never released to the major public.
The "DeviceGuide" now contains 39 Devices.
'Author' mis-spelling corrected.

Credits
-NODE added.

Updates
-NODE added.

I'm not happy about the Style and Look of the Guide, but
I hope to get it done very soon :-|
```

## 1.29 handlerguide history

```
-----
HandlerGuide History
-----
Version

1.0      First Public release.

1.1      Limited release. Kind of Beta-test-release ;-)
```

---

Released for some testing purpose.  
The "HandlerGuide" now contains 28 Handlers.

- 1.3 Second Public release.  
The "HandlerGuide" now contains 32 Handlers.  
Look of  
  Index  
-NODE changed a bit.
- 1.4 Third version. Never released to the major public.  
The "HandlerGuide" now contains 33 Handlers.  
  
  Credits  
-NODE added.  
  
  Updates  
-NODE added.

### 1.30 libraryguide history

Version

- 1.0  
  First Public release.
  - 1.1  
  Second Public release.  
The "LibraryGuide" now contains 210 Libraries  
and 36 Sub-Libraries.
  - 1.15  
  Limited release.  
Now contains 211 Libraries and 41 Sub-Libraries.
  - 1.40  
  Third Public release.  
Now contains 234 Libraries and 57 Sub-Libraries.
  - 1.75  
  Fourth Public release.  
Now contains 252 Libraries and 62 Sub-Libraries.
  - 2.0  
  Last version. Never released.  
Now contains 267 Libraries and 64 Sub-Libraries.
-



### 1.31 LibraryGuide History: Version 1.0

Version 1.0      First Public release.

The whole story about how and why I started this project, you can read in the Introduction  
-Node.  
No need to repeat myself here :-)

### 1.32 LibraryGuide History: Version 1.1

Version 1.1      Second Public release.

The "LibraryGuide" now contains 210 Libraries and 36 Sub-Libraries.

### 1.33 LibraryGuide History: Version 1.15

Version 1.15      Not released to the major Public, only to a limited number of people, kind of a Beta-release ;-) ↔

Now contains 211 Libraries and 41 Sub-Libraries.

Credits  
-NODE added.

Style and Look fully compleated.

### 1.34 LibraryGuide History: Version 1.40

Version 1.40      Third Public release.

Now contains 234 Libraries and 57 Sub-Libraries.

Legal Stuff  
-NODE added. (Somebody told me to).

History  
-NODE added.

Index  
-NODE added, just for the fun of it ;-)

This was a MAJOR update because, I found out a lot of

---

informations about many Libraries which I had to write.  
Beside that I got 39 new (Sub)-Libraries to do too.  
The  
Legal Stuff  
-NODE also took some time to figure  
out how to do and write :-)  
I also did a lot of Spell-checking, Style-checking and  
Error-correction on this one as well.  
At this time I also began getting letters with new  
information, I had to incorporate too.

### 1.35 LibraryGuide History: Version 1.75

Version 1.75      Fourth Public release.

Now contains 252 Libraries and 62 Sub-Libraries.

Updates  
-NODE added.

Icons for 4-Color WorkBench supplied with the package.  
Anyone out-there, who still use just 4 colors ???

Original Icons slightly changed.  
Can you see the different :-)

Style and Look now really is fully completed as  
stated in  
Version 1.15  
;-)

Although I'm not sure about the style, look, use and  
feel of the  
History  
-NODE :-?

Important NOTE added to the  
Tutor  
-NODE.

### 1.36 LibraryGuide History: Version 2.0

Version 2.0      Last version. Never released.

Now contains 267 Libraries and 64 Sub-Libraries.

Look of  
Index  
-NODE slightly changed.

Error correction: The

---

```

APIG.library
was not placed

                                in the alphabetically order in the

Main
-List.

Error correction:  'Author' in each Library
                   description was mis-spelled.
                   Sorry about my english ;-)
```

## 1.37 artser.device

```

----- ArtSer.device    v37.6
-----
A debugged and optimised version of the original
Serial.device
.
All functions should be identical, but this one should be somewhat
faster and safer (the original contained code that trashed a byte when
closing the Device).
To use this Device, place it in your DEVS: Directory, and select
"ArtSer.device" instead of
Serial.device
in your COMMs Program.
It's also possible to use this Device by renaming it to
Serial.device
and then replace the original
Serial.device
in DEVS: with this one.

Can be found on the "AmiNet_0294" CDROM in ":COMM/Misc/".

Authors: Commodore Amiga and Arthur Hagen.
```

## 1.38 asdg.vdisk.device

```

----- ASDG.VDisk.device    v1.0
-----
This AmigaDOS Device driver implements a completely DOS compatible
disk Device in memory, VD0:, that survives resets, guru's, and crashes.

This Device is no longer of any use because it doesn't work with 32Bit
RAM or with memory greater than 8 MB.
A new version called
VDisk.device
has been written that can cope
with both 32Bit RAM and memory greater than 8 MB.

But an even greater improvement has been done with
StatRAM.device
,
```

which is more resistant, flexible, faster and can be configured in many more ways than VD0:.

Fred Fish PD-Serie. Disk N\textdegree{} 241.

Author : Perry Kivolowitz, ASDG Inc.

### 1.39 audio.device

Audio.device v37.10  
-----

For controlling sound.

Comes with the System software.

Author : Commodore Amiga.

### 1.40 baudbandit.device

BaudBandit.device v1.4c  
-----

A ShareWare replacement for the  
Serial.device  
which is much faster,  
even on a 68000 Amiga, and doesn't 'freeze' while on heavy duty :-)  
Actually it is a lot faster, it supports speeds of up to 115.200 BAUD.

SaarAG PD-Serie. Disk N\textdegree{} 517.

Author : Christian Buchner.

### 1.41 bookmark.device

BookMark.device v220.32768  
-----

This is part of the CDTV boot CDROM, and is used by a very few programs for storing save game information and hiscore tables to memory (either normal memory, or to PCMCIA type I memory cards as found in CDTV).

Part of the CDTV System Software.

Author : Commodore Amiga.

### 1.42 bscisdn.device

```
BscISDN.device    v2.134
```

```
-----  
Support Device for the new ISDN communication standard.
```

```
Supplied by bsc with their ISDN-Card.
```

```
Author : Chris Haller.
```

```
When do we get to see ISDN for the A500 ???
```

```
I sure would like to use it on my A500+ !!!
```

### 1.43 carddisk.device

```
CardDisk.device  v37.11
```

```
-----  
Used to control the PCMCIA port which is built into A600 and A1200.
```

```
Part of the System SoftWare from 2.05.
```

```
Author : Commodore Amiga.
```

### 1.44 cd.device

```
CD.device
```

```
-----  
Used to control the CD32s CDROM drive.
```

```
Part of the System SoftWare from 3.1.
```

```
Author : Commodore Amiga,
```

### 1.45 cdromemu.device

```
CDROMEmu.device  v1.1
```

```
-----  
CDROMEmu.device emulates a  
    TrackDisk.device  
    unit which reads a CDROM  
image from an AmigaDOS File.
```

```
It is useful for CDROM manufacturers which want to verify the Output of  
their pre-mastering program.
```

### 1.46 cdtv.device

---

CDTV.device v35.9  
-----

This is a system Device found in the boot ROM for the CDTV (and maybe also in the A570 CDROM drive for the A500).

This actually seems to cause quite a bit of incompatibility since it is hardwired and hence so rare (only found on A570/CDTV).

There is a pair of program called "CDon" and "CDOff" written by Jolyn Ralph of Almathera which supposedly switch CDTV.device ON and OFF to improve compatibility.

Part of the CDTV System SoftWare.

Author : Commodore Amiga.

## 1.47 clipboard.device

Clipboard.device v38.8  
-----

????

Part of the System software.

Author : Commodore Amiga.

## 1.48 compressdisk.device

CompressDisk.device v37.25  
-----

Device for controlling part of a HardDisk, that automatic crunch and decrunch data as they are being saved and loaded.

This is an Exec-Device, similar in the way of operating to M. Dillon's

FMSdisk.device

Like that, in fact, it allows you to create 'virtual' disks, whose tracks are saved on a file. Unlike

FMSdisk.device

, however, it uses a different file for each track, and compresses the tracks.

This allows you to create 'virtual' partitions on your HardDisk, usable like normal partitions, but having the great advantage that every file that you write in them is automatically compressed (and obviously, it is decompressed whenever you read it back).

Files stored on 'virtual' partitions can be rewritten (even partially), and applications can even Seek() into them, as with usual files.

SaarAG PD-Serie. Disk N\textdegree{} 567.

Author : Antonio Schifano.

## 1.49 console.device

```
Console.device    v39.28
-----
Controls the text consoles.

Part of the System software.

Author : Commodore Amiga.
```

## 1.50 cslip.device

```
CSlip.device     v37.4
-----
???? (Something to do with NetWorking ?)

Can be found on the "AmiNet_0294" CDROM in ":COMM/Net/".

Author : Olaf 'Rhialto' Seibert.
```

## 1.51 diskspare.device

```
                DiskSpare.device    v2.0
-----
This is a completion or replacement of the
                TrackDisk.device
                .
It lets you format your normal DD-Disks with 960 kB or 984 kB in a
standard Amiga Floppy Drive !!!

( In fact it's great and I use it a lot myself :- )
                                                Dan )

Author : Klaus Deppisch.
```

## 1.52 dms.device

```
DMS.device       v1.2
-----
Disk-Masher System.

"DMS" is program that makes it possible to copy the whole contents of a
disk into a file, preserving its disk structure, thereby making it
possible to DownLoad/UpLoad even TrackLoaded-Programs/Demos via Modems.

DMS.device is a little Device driver, which gives you the ability to
mount .DMS files as a drive, instead of unpack to a disk.
```

---

## 1.53 envoyprint.device

EnvoyPrint.device v40.1  
-----

"Envoy" is Commodore's new peer-to-peer Amiga networking package.  
It provides the user with:

- NetWork File sharing
- NetWork Printing
- User Accounts and Security precautions
- Ability to make use of any  
broadcast-capable SANA-II Device

...and several other features.

This Device controls the NetWork Printing (I'm told).

Author : Commodore Amiga.

## 1.54 fmsdisk.device

FMSdisk.device v1.0  
-----

A file based

TrackDisk.device  
-simulator, useful for creating a  
floppy-like partition on your HardDisk (so you can diskcopy to a floppy)  
without actually having to create a special partition for it.  
Also useful for testing new FileSystems and such.  
Supports up to 32 units, with either the  
Old FileSystem  
or the new

FastFileSystem

.

Fred Fish PD-Serie. Disk N\textdegree{} 294.  
Includes source.

Author : Matt Dillon.

## 1.55 gameport.device

GamePort.device v37.12  
-----

????

Part of the System software.

Author : Commodore Amiga.

---



## 1.56 gcrdisk.device

```
-----
GCRDisk.device    v1.0
-----
For use with PC 1.44 MB HighDensity Floppy Drives.

There is also a Device called
    Mega19T.device
, and it seems to be the
same Device as this, but I havn't been able to find out.
Anyone out there who can help !?!
```

## 1.57 gvpscsi.device

```
-----
GVPSCSI.device    v4.13
-----
For controlling SCSI HardDisks supplied from GVP.

Comes with any GVP SCSI HardDisk.
Well, it came with my GVP A530 anyway :-)
```

Author : Ralph Babel.

## 1.58 hackdisk.device

```
-----
HackDisk.device   v2.02
-----
A complete replacement for
    TrackDisk.device
featuring a verify option
and better performance.
HackDisk.device is supplied as an OS module that may be RAM-Kick'ed or
placed directly in the KickStart ROM.
Includes support for 150RPM HD floppy-drives and untested support for
5.25 inch drives.

SaarAG PD-Serie. Disk N\textdegree{} 572.
Source in 'Assembly' included.

Author : Dan Babcock.
```

## 1.59 harddisk.device

```
-----
HardDisk.device
-----
A complete Driver for a WD-1002-05 HardDisk-Controller Card.
This Card can handle 3 HardDisks and 4 Floppies, but the Driver
currently only handles one HardDisk.
```

---

Fred Fish PD-Serie. Disk N\textdegree{} 98.  
Includes source.

Author : Alan Kent.

## 1.60 hardfile.device

HardFile.device v1.0  
-----

Support Device for the "PCTask" PC Emulator.

This Device allows you to set up a MountList entry to access virtual PC  
HardDisks from AmigaDOS.

Comes with the registered package of "PCTask".

Author : Chris Hames.

## 1.61 hardtrack.device

HardTrack.device v37.00  
-----

????

## 1.62 hidedisk.device

HiDeDisk.device v1.62  
-----

????

It must have something to do with HighDensity Floppy Disk :-?

Author : Stefan Klensch.

## 1.63 highdensity.device

HighDensity.device v1.0  
-----

This is the HighDensity version of the  
DiskSpare.device

.  
It lets you format your HighDensity-Disks with 1.88 MB or 1.92 MB, if  
you have a HighDensity Floppy Drive.

Author : Klaus Deppisch.

---

## 1.64 ilink-fb.device

```
ILink-FB.device  v2.0  
-----  
????
```

## 1.65 input.device

```
Input.device  v37.12  
-----  
????
```

Part of the System software.

Author : Commodore Amiga.

## 1.66 ipc.device

```
IPC.device  v36.72  
-----  
????
```

## 1.67 ivs\_scsi.device

```
IVS_SCSI.device  v1.3  
-----  
????
```

## 1.68 jdisk.device

```
JDisk.device  v33.2  
-----  
????
```

## 1.69 keyboard.device

```
Keyboard.device  v37.12  
-----
```

For controlling Input/Output from the keyboard.

Part of the System software.

Author : Commodore Amiga.

---

## 1.70 load.device

```
Load.Device    v1.0
-----
```

A Device which monitors system parameters.

Fred Fish PD-Serie. Disk N\textdegree{} 111.  
Includes Source.

Author : Jeff Kelley.

## 1.71 map.device

```
Map.device     v4.3
-----
```

Part of the "DisKey" Disk monitor.

Fred Fish PD-Serie. Disk N\textdegree{} 564.

Author : Bernhard von Müllemann.

## 1.72 mega19t.device

```
Mega19T.device v1.0
-----
```

For use with PC 1.44 MB HighDensity Floppy Drives.

There is also a Device called

GCRDisk.device

, and it seems to be the

same Device as this, but I haven't been able to find out.

Anyone out there who can help !?!

## 1.73 messydisk.device

```
MessyDisk.device v34.5
-----
```

Support Device for "MSH" and

MessyFileSystem

which allows you to Read

and Write PC disks directly from AmigaDOS.

This FileSystem supports 8, 9 or 10 sector disks of 80 tracks, and should also work on 40 track Drives and HardDisks with 12 or 16 bit FAT of any dimension the FAT allows.

Fred Fish PD-Serie. Disk N\textdegree{} 382.  
Includes Source.

Author : Olaf Seibert.

---

## 1.74 mfm.device

```
-----
                          MFM.device    v40.9
-----
New Device in support of "CrossDOS".
Allows Amiga floppy drives to read PC-format disk.
Interface is similar to
    TrackDisk.device
    .

Part of the System software.

Author : Commodore Amiga.
```

## 1.75 modem<x>.device

```
-----
Modem<x>.device
-----
Set of support Devices for Supra ZI MODEMS.

They are labeled 0-4:
Modem0.device    v2.5
Modem1.device    v2.5
Modem2.device    v2.5
Modem3.device    v2.5
Modem4.device    v2.5

They can all be found on the "AmiNet_0294" CDROM in ":Hard/Drivr/".
```

## 1.76 multidos.device

```
-----
                          MultiDOS.device  v1.12
-----
The Device which the
    MultiDOSFileSystem
uses to read IBM PC disks.
```

## 1.77 narrator.device

```
-----
Narrator.device    v37.7
-----
Device for speech.

Part of the System software.

Author : Commodore Amiga.
```

---

## 1.78 nexus.device

```
Nexus.device    v1.10
-----
????
```

## 1.79 nullmodem.device

```
NullModem.device  v2.0
-----
```

A SoftWare Device that imitates two modems and a phone line, on one machine.

Written as a developer-tool to be able to play around while testing communication SoftWare/HardWare without having to spend any money on expensive phone calls.

Can be used for testing various other programs.

Fred Fish PD-Serie. Disk N\textdegree{} 905.

Author : Iain Hibbert.

## 1.80 parallel.device

```
Parallel.device  v40.1
-----
```

For controlling HardWare conected to the parallel port.

Part of the System software.

Author : Commodore Amiga.

## 1.81 parnet.device

```
ParNet.device    v2.4
-----
```

The SoftWare Distillery's NET: FileSystem using Matt Dillon's parallel port code.

Using a special DB25 cable, two Amigas can be connected via the parallel port.

One Amiga can mount the other as a Device and Read/Write the files as if they were local.

Fred Fish PD-Serie. Disk N\textdegree{} 400.

Authors: Doug Walker, John Toebes & Matt Dillon.

There is also an optimized version floating around by Luca Spada.

---

## 1.82 pipe.device

```
-----
PIPE.device
-----
A Public Domain
    PIPE-Handler
    , implemented as a Device.

Fred Fish PD-Serie. Disk N\textdegree{} 55.

Author : Matt Dillon.
```

## 1.83 plip.device

```
-----
PLIP.device    v38.7
-----

"PLIP.device" is a NetWork Device Driver conforming to the 'SANA2'-
standard.
It allows linking of two Amigas using their Parallel Ports.
Transfer speed is around 40 kbyte/sec.
The complete low level transfer protocol is integrated in the Device
Driver, including Port arbitration handshaking and interrupt driven
Reads.
Although the transfer process itself is CPU intensive, the Device needs
no CPU Resources when no transfer is in progress.
"PLIP.device" is intended as a low-cost networking solution, since the
capabilities of the Parallel HardWare are somewhat limited.
However, it gives much better results than
    SLIP.device
    and leaves the
Serial Port free.

Can be found on the "AmiNet_0294" CDROM in ":COMM/Net/".

Author : Oliver Wagner.
```

## 1.84 printer.device

```
Printer.device    v39.6
-----
Device for printer Input/Output.

Part of the System software.

Author : Commodore Amiga.
```

## 1.85 ramdisk.device

---

```
RAMDisk.device    v1.1
-----

Another recoverable RAM-Disk.
This one supports up to 32 Units and can be autobooted.
Unused sectors are deleted from memory.
The RAM-Disk can be formatted, copied to, or used just like a normal
Disk drive.

Fred Fish PD-Serie. Disk N\textdegree{} 451.

Author : Bob Dayley.
```

## 1.86 ramdrive.device

```
RAMDrive.device  v39.35
-----

Controls the RAD: Disk.

Part of the System software.

Author : Commodore Amiga.
```

## 1.87 scala.device

```
Scala.device
-----

Well, can't tell you much here since I don't have the Scala Package.
But I do know that each version of Scala cannot work with another
version of the Scala.device than it's own!

Comes with the Scala MultiMedia Package.
```

## 1.88 scottdisk.device

```
ScottDisk.device  v33.1
-----

A mountable MicroForge SCSI Driver.
Supports one SCSI buss Device with two HardDisk Units attached to it.

Fred Fish PD-Serie. Disk N\textdegree{} 84.
Includes source.

Author : Scott Turner.
```

## 1.89 scsi.device

---



```
SCSI.device    v37.64
-----
```

Device which controls the A590 and A2090/A2091 SCSI HardDisk Drives.  
It also controls the AT-IDE Drives, which can be attached to the A600,  
A1200 and A4000.

Part of the System SoftWare from v2.05.

Author : Commodore Amiga.

## 1.90 scsi3.device

```
SCSI3.device   v3.10
-----
```

????

## 1.91 serial.device

```
Serial.device  v37.4
-----
```

For controlling HardWare conected to the Serial port.

Part of the System software.

Author : Commodore Amiga.

## 1.92 slip.device

```
SLIP.device    v37.4
-----
```

???? (Something to do with NetWorking ?)

Can be found on the "AmiNet\_0294" CDROM in " :COMM/Net/".

Author : Olaf 'Rhialto' Seibert.

## 1.93 spar.device

```
Spar.device    v37.2
-----
```

SPAR is a "Sana-II" compatible Device driver for "ParNet" NetWorks.  
It allows you to make connections over a "ParNet" line with any network  
protocol stack.

It is created as a 'Front-End' Device, meaning that it calls the

```
ParNet.device
for low-level communications.
```

The advantage of this method is that you can use any version of the

```
ParNet.device
, even the versions that are patched for multi parallel
boards.
```

The Spar.device can be used with all applications that support the "Sana-II" standard, like "AS225", "Envoy", "AmiTCP", etc.

Author : Sven A. Pechler.

## 1.94 spardebug.device

```
SparDebug.device v37.2
-----
????
```

I think it comes with the  
Spar.device  
package.

## 1.95 spool.device

```
Spool.device v37.9
-----
```

This Printer spooler Device is used by the "PrintManager" Program.

Fred Fish PD-Serie. Disk N\textdegree{} 810.

Author : Nicola Salmoria.

## 1.96 spooly.device

```
Spooly.device v31.2
-----
```

This Device is used by a program called "AShow".

"AShow" is an all round IFF ILBM/ANIM display program. It has all the usual options for displaying ANIMs and still ILBMs, but it can also spool very large ANIMs from CD or HardDisk, this is where Spooly.device comes in. Without it "AShow" will not be able to view ANIMs larger than the current memory allows.

It is found on "Demo CD II" produced by Almathera, on which it is used to display very large ANIMs.

## 1.97 static.device

---

```

-----
                Static.device    v2.1
-----
Device for a DOS-unit called StatRAM or SD0:.
This is a very fast recoverable RAM drive, like RAD:, that takes
advantage of
    FFS
    under WB2 or
    FFS
    International under WB2.1 or 3.
This work is based on ASDG's
    VDisk.device
    , called VD0:.
ASDG-RAM has been reliable for many years since it was placed in PD.
However it has always been slow because it uses the
    Old FileSystem
.
On an accelerated machine, SD0: is up to 7 times faster, and averages
5 times faster than the original VD0: and 4-5 times faster than RAD:.
It maintains the remarkable recoverability of the original VD0:.
It survives the deepest re-boot, even the ColdReboot of rekicking a
KickStart-file.
Has been totally re-written to handle any DOS FileSystem, be named what
you like and give back memory from deleted files instantly.
This Device is now completely replaced by the new
    StatRAM.device
.

Fred Fish PD-Serie. Disk N\textdegree{} 915.

Authors: Richard Waspe & Nicola Salmoria.

```

## 1.98 statram.device

```

-----
                StatRAM.device    v37.7
-----
StatRAM is the 2. generation of the
    Static.device
and is a completely
replacement of the
    Static.device
, with many new features and highly
optimized code.
StatRAM.device is a completely new program. Even the device name has
changed from the old
    Static.device
.
StatRAM.device works on any Amiga using V2.04 or greater of the OS.
It handles any FileSystem (either Amiga or foreign, like the now
supplied
    CrossDOSFileSystem
), has ten units and may be layed out like
a Floppy Disk for quick diskcopies.
It is dynamic, that is it allocates and frees memory as files are
copied and deleted, and is probably the most recoverable RAM Drive

```

available.

Even the worst system crash will not erase it, as long as the portion of memory where it resides is not corrupted.

Authors: Nicola Salmoria and Richard Waspe.

## 1.99 telnetd.device

```
TelNetD.device  
-----
```

????

Can be found on the "AmiNet\_0294" CDROM in ":COMM/Net/".

Author : Christopher A. Wichura.

## 1.100 telnetd.amitcp.device

```
TelNetD.AmiTCP.device  v1.0  
-----
```

????

Can be found on the "AmiNet\_0294" CDROM in ":COMM/Net/".

Author : Christopher A. Wichura.

## 1.101 telnetd.as225.device

```
TelNetD.AS225.device  v1.0  
-----
```

????

Can be found on the "AmiNet\_0294" CDROM in ":COMM/Net/".

Author : Christopher A. Wichura.

## 1.102 timer.device

```
Timer.device  v39.4  
-----
```

The Device which allows programs to keep accurate timers going.

Part of the System software.

Author : Commodore Amiga.

---

### 1.103 trackdisk.device

TrackDisk.device v39.4  
-----

For controlling Floppy disk drives conected to the Amiga.

Part of the System software.

Author : Commodore Amiga.

### 1.104 vdisk.device

VDisk.device v1.2  
-----

This is the same as  
ASDG.VDisk.device  
,except that it has been  
rewritten, so that it works with 32Bit RAM and memory greater than 8 MB.

But an even greater improvement has been done with  
StatRAM.device

which is more resistent, flexible, faster and can be configured in many  
more ways than VD0:.

Author : Perry Kivolowitz, ASDG Inc.

### 1.105 bffsfilesystem

BFFSFileSystem  
-----

???? (Berkeley FFS ?)

### 1.106 cdfilesystem

CDFileSystem v40.11  
-----

???? (FileSystem for the CDTV ?).

Author : ??? (Commodore Amiga ?).

### 1.107 crossdosfilesystem

CrossDOSFileSystem v40.19  
-----

Part of the "CrossDOS" IBM PC Disk reader.

This allows the Amiga to Read & Write PC disks directly from AmigaDOS.

---

Part of the System software 2.1+.

Author : Commodore Amiga.

## 1.108 envoyfilesystem

EnvoyFileSystem v40.24  
-----

Support FileSystem for Commodore's new peer-to-peer Amiga networking package "Envoy".

This FileSystem handles the network security in a way similar to that of UNIX, where you have users and groups.

Just like in UNIX, each user has a name, password, numeric user ID, and a primary group ID.

Each user also has specific flags that specify whether or not a user may create groups, change his name, change his password, etc, etc, etc..

A group in "Envoy" is also similar to the concept in UNIX, where each group has a numeric group ID and contains an arbitrary number of users.

Unlike UNIX, every machine using "Envoy" does not need to have it's own private list of users and groups. Only machines that are exporting services need to have a user and group database.

Author : Commodore Amiga.

## 1.109 fastfilesystem

FastFileSystem v40.1  
-----

This is the replacement for the  
Old FileSystem

This FileSystem also handles disks with the  
Old FileSystem

This used to be a disk-based FileSystem under Kickstart 1.3, but has been in ROM since Kickstart v2.04.

This FileSystem comes in 3 versions:

DOS1 : The original FastFileSystem.

DOS3 : The international version of the FastFilesystem.

DOS5 : The Directory-Cache version of the FastFileSystem.

These 3 versions of the FileSystem is also called its 3  
Generations

Part of the System Software.

Author : Commodore Amiga.

---

## 1.110 messyfilesystem

MessyFileSystem  
-----

Yet another PC disk Read/Write FileSystem, that allows you to use PC disks directly from AmigaDOS.

This FileSystem supports 8, 9 or 10 sector disks of 80 tracks, and should also work on 40 track Drives and HardDisks with 12 or 16 bit FAT of any dimension the FAT allows.

Fred Fish PD-Serie. Disk N\textdegree{} 382.  
Includes Source.

Author : Olaf Seibert.

## 1.111 msdosfilesystem

MSDOSFileSystem v40.21  
-----

This is the presuccesor to the  
CrossDOSFileSystem

.  
This FileSystem allows you to read and write MS-DOS/PC-DOS and Atari ST formatted disks directly from AmigaDOS.

It has now been completely replaced by the  
CrossDOSFileSystem

.  
Fred Fish PD-Serie. Disk N\textdegree{} 382.  
The version on this disks is a earlier TryWare/ShareWare-read-only-version of the FileSystem.  
To get the lastest fully functional version you have to register.

Author : Leonard Poma, CONSULTRON.

## 1.112 multidosfilesystem

MultiDOSFileSystem v1.12  
-----

???? (Another IBM PC disks Read/Write FileSystem ?).

Hey, just use the  
CrossDOSFileSystem

## 1.113 multiuserfilesystem

MultiUserFileSystem v39.130  
-----

This FileSystem is part of the "MultiUser"-package.  
 This package allows you to create a UNIX-like environment where several users live together in harmony, unable to delete each others files, unable to read those private love-letters of other users... And this even if several users are working on the machine at the same time (on a terminal hooked up to the serial port).  
 This FileSystem is entended to be used as a patch for the orginal

FastFileSystem

.

Fred Fish PD-Serie. Disk N\textdegree{} 905.

Author : Geert Uytterhoeven.

## 1.114 networkfilesystem

NetWorkFileSystem

-----

This FileSystem is intended to be a replacement for the well-known

ParNet.device

by the Software Distillery.

This one is implented as a FileSystem, rather than a Device.

Can be found on the "AmiNet\_0294" CDROM in ":COMM/Net/".

Author : Olaf 'Rhialto' Seibert.

## 1.115 old filesystem

Old FileSystem

-----

This is the only FileSystem supplied with the earlier Amiga's.  
 It is slow, only allows 488 bytes per track and is easily fragmented.  
 Is now completely replaced with the

FastFileSystem

.

This FileSystem comes in 3 versions:

DOS0 : The old FileSystem that is compatible to all Kickstarts.

DOS2 : This international version of the Old Filesystem.

DOS4 : The Directory-Cache version of the Old FileSystem.

These 3 versions of the FileSystem is also called its 3  
 Generations

.

Part of the System Software.



Author : Commodore Amiga.

## 1.116 profilesystem

----- ProfFileSystem v6.11 -----

A replacement for the standard  
Old FileSystem  
and  
FastFileSystem

,  
which offers higher performance on all operations such as Read, Write,  
Scan, Delete, Rename, etc, etc, etc, and full compatibility with  
AmigaDOS.

Fred Fish PD-Serie. Disk N\textdegree{} 955.

Author : Michiel Pelt.

## 1.117 generations

----- Generations of the FileSystem -----

First there is the original version.

Then there is the International version of the FileSystem which fixes  
a bug in the original version that caused filenames with international  
characters in them (like 'Ørsted') to be case-sensitive, meaning that  
'Ørsted' and 'ørsted' used to be two different file names.

In this new FileSystem version they refer to the same file.

Last there is the Directory-Cache version of the FileSystem.

This version uses a new block type (directory cache block) to speed up  
directory accesses.

## 1.118 apipe-handler

----- APipe-Handler v37.5 -----

The "APipe-Handler" allows you to add the 'APIPE:' DOS Device to your  
system.

This Device acts as a pipe between two Programs, but in a different  
manner than the standard 'PIPE:' Device does.

This Handler interprets the text after the 'APIPE:' prefix as a command  
line to execute, and the process/command which opens the file indicated  
by the mention of 'APIPE:' can now Read the standard Output or Write the  
standard Input of the Program indicated by the command line depending on  
whether the 'APIPE:' file was opened for reading or writing,  
respectively.

---

Thus, the opening an 'APIPE:' file is analogous to the UNIX 'popen()' call, but it is more widely available to the user.

Fred Fish PD-Serie. Disk N\textdegree{} 980.  
Complete source is included.

Author : Per Bojsen.

## 1.119 aux-handler

AUX-Handler

-----

AUX: is an 'AmigaDOS' unit very much like SER:, but AUX: doesn't have a buffer.

AUX: need to be mounted.

This Handler connect 'AmigaDOS' and Serial.device when mounting AUX:.  
All settings made to SER: (i.e. in Perfs) also have effect on AUX:.

Part of the System software.

Autor : Commodore Amiga.

## 1.120 berserker-handler

Berserker-Handler v1.5

-----

Support Handler for the "Berserker" Virus-Killer.

Fred Fish PD-Serie. Disk N\textdegree{} 436.  
Contains partial Source in 'Assembly'.

Author : Ralf Thanner.

## 1.121 bootram-handler

BootRAM-Handler v1.1

-----

This is a Handler for a Reset-survivable RAM-Disk called BOOT:, which can be used to boot from even, though it is dynamic.

Author : Frank Seide.

## 1.122 btn-handler

BTN-Handler v3.0

-----

This is a SCSI Tape Device Handler.

---

It provides flat-file access to a SCSI Tape Drive from application programs using simple calls to DOS- or C-Library I/O functions. It can also be used with the Amiga "TAR" utility for Disk BackUps. It uses your existing SCSI adapter's Device Driver for access to the bus.

Has File number tracking and append-only and read-only safety modes.

Fred Fish PD-Serie. Disk N\textdegree{} 1000.  
Includes C source and extensive documentation.

Author : Robert Rethemeyer.

## 1.123 calc-handler

Calc-Handler  
-----

This is the Handler that is used by the "Calc"-program.

Calc is a simple calculator program that turns your keypad into a calculator.

Unlike the calculator on the Workbench disk, however, this calculator can appear on any screen where you may need it.

Fred Fish PD-Serie. Disk N\textdegree{} 497.

Autor : Davide P. Cervone.

## 1.124 cdrom-handler

CDROM-Handler v1.10  
-----

This is the Handler for the "AmiCDROM".

"AmiCDROM" is a CDROM Disk Filing System for the Commodore A4miga. It supports the ISO-9660 standard, the Rock Ridge Interchange Protocol and the Macintosh HFS format.

The CDROM drive is mounted as a DOS device (e.g. CD0:).

You can access Files and Directories on a CDROM Disk by the usual syntax, e.g. 'Type CD0:Foo/ReadMe.TXT'.

Autor : Frank Munkert.

## 1.125 chandler

CHandler  
-----

This is exactly the same as the  
CONHandler

It has been renamed to "CHandler" to be distributed in ARced form.

It must be renamed back to  
CONHandler  
when installed to work.

Fred Fish PD-Serie. Disk N\textdegree{} 100.

Author : William Hawes.

## 1.126 chop-handler

Chop-Handler  
-----

Support Handler for the "Chop" hotkey program.

Fred Fish PD-Serie. Disk N\textdegree{} 302.

Author : Nico Francois. (Yes, Nico is his first name :-)

## 1.127 click-handler

Click-Handler v1.0  
-----

Support Handler for the "ClickUpFront" Program.

Fred Fish PD-Serie. Disk N\textdegree{} 94.  
Includes Source.

Author : Davide P. Cervone.

## 1.128 conhandler

CONHandler  
-----

Replacement of the  
My-Handler  
as support Handler for "CONMAN", which  
is an old replacement for the standard console.  
It is no longer needed since DOS 2.xx+ now has all its functions as  
standard.

Fred Fish PD-Serie. Disk N\textdegree{} 426.

Author : William Hawes.

## 1.129 dcmd-handler

---

```
DCMD-Handler
-----

A Handler that monitors a CLI's console IO and copies it to a user-
specified file.
The console IO is unaffected by this monitoring.

Fred Fish PD-Serie. Disk N\textdegree{} 408.
Includes Source.

Author : Matthew Dillon.
```

### 1.130 dclock-handler

```
DClock-Handler 1.29
-----

Handler for the "DClock"-Utility.
"DClock" is a 'Dumb Clock' Utility that displays the date and time in
the Workbench screen title bar.
Uses only about 2 percent of the CPU time and about 10Kb of memory.
Also has an alarm clock feature and audible beep for programs that call
DisplayBeep.

Fred Fish PD-Serie. Disk N\textdegree{} 398.
Includes source.

Author : Olaf 'Olsen' Barthel.
```

### 1.131 disk-handler

```
Disk-Handler
-----

A sample implementation of a FileSystem that Reads and Writes disks,
which are DOS v1.2 formatted.

Fred Fish PD-Serie. Disk N\textdegree{} 236.
Includes Source.

Author : Software Distillery.
```

### 1.132 dmouse-handler

```
DMouse-Handler v1.25
-----

Handler for the "DMouse"-Utility.
"DMouse" is a versatile screen & mouse blanker, auto window activator,
mouse accelerator, popcli, pop window to front, push window to back
widget.

Fred Fish PD-Serie. Disk N\textdegree{} 421.
```

---

Includes source.

Author : Matt Dillon.

### 1.133 dpipe-handler

DPipe-Handler

-----  
Support Handler for "DNET".

Fred Fish PD-Serie. Disk N\textdegree{} 294.

Author : Matt Dillon.

### 1.134 dummy-handler

Dummy-Handler

-----  
Part of the "DisKey" Disk monitor.

Fred Fish PD-Serie. Disk N\textdegree{} 564.

Author : Angela Schmidt.

### 1.135 epu<x>.handler

EPU<x>.Handler

-----  
3 Handlers for the "EPU" compressed-data read-program.

"EPU" is a program like "Stacker" or "XPK" that allows applications to access compressed data from 'AmigaDOS' Devices without knowing that the data is compressed, and automatically compresses new data.

The file size is not limited by memory and the settings of the Handlers can be changed at any time.

The Handlers are numbered 1-3 :   EPU1.Handler  
                                  EPU2.Handler  
                                  EPU3.Handler

"EPU" also need the  
    EPU<x>.library  
    and the  
    Lh.library  
    to work.

Fred Fish PD-Serie. Disk N\textdegree{} 858.

Author : Jaroslav Mechacek.

---

## 1.136 fastpar-handler

FastPAR-Handler

Multitasking-friendly replacement for PAR:.

Enables the user to continue working (the original PAR: laughs at multitasking).

Intended for use with DVIPrint (PasTeX), but it can be used with all programs that drive the Printer directly and allow Output to a file.

Can be found on the "AmiNet\_0294"-CDROM in ":Hard/Drivr/".

Author : Christian Stieber.

## 1.137 fhandler

FHandler

Support Handler for the "FuncKey" ShareWare function key editor.

This Handler must be placed in C: rather than L: to work !!!

Fred Fish PD-Serie. Disk N\textdegree{} 106.

Author : Anson Mah.

## 1.138 fifo-handler

FIFO-Handler v3.2

This Handler support the FIFO: device.

FIFO: is like PIPE: but is based on

FIFO.library  
rather than its own

implementation.

Full master/slave support exists. Since FIFO: uses

FIFO.library

programs that require non-blocking IO capability can access one side of a FIFO: connection via the

FIFO.library  
instead of FIFO:

Fred Fish PD-Serie. Disk N\textdegree{} 588.

Autor : Matt Dillon.

## 1.139 flat-handler

---

```
Flat-Handler    v1.3
-----

A filling system Handler which implements block-mapped filling devices
such as available under UNIX.
Read and write calls are mapped to low-level system Input/Output
operations which allow to treat devices such as DF0:, DH0:, and RAD: as
big data files.
These 'virtual' files can be copied, read, and written just like any
standard 'AmigaDOS' file.
It is even possible to copy a hole disk with the CLI's "Copy" command
or to archive disks with "LhArc" and the like.

Fred Fish PD-Serie. Disk N\textdegree{} 535.
Source in C included.

Autor : Olaf Barthel.
```

## 1.140 fsovl-handler

```
FSovl-Handler
-----

Running this creates a new Device which automatically compresses and
decompresses any Files which you access using it.
If you type "CD ARCH:DF0", then you will change Directory to DF0:, but
any file which you write gets compressed before being written.

Comes with "DICE v3.0".
```

## 1.141 gmc-handler

```
GMC-Handler    v9.8
-----

A console Handler with command line editing and function key support.
The "GMC-Handler" provides extended command line editing, function key
assignment in four levels, extended command line history, online help
for functions in the Handler, and an iconify function.
Also includes an Output buffer (dump to Printer and Window), filename
completer, script function, undo function, prompt beeper, pathname in
Window-title, close gadget for KS 2.0, etc, etc, etc...

Fred Fish PD-Serie. Disk N\textdegree{} 434.

Author : Goetz Mueller.
```

## 1.142 guruhandler

```
GuruHandler    v1.0
-----
????
```

---



Can be found on the "AmiNet\_0294" CDROM in ":COMM/Misc/".

Author : Steve Drew.

### 1.143 gvpporthandler

```
GVPPortHandler  v1.1
-----
????
```

Autor : Ralph Babel.

### 1.144 helios-handler

```
Helios-Handler  v1.1
-----
```

Support Handler for "HeliosMouse", a "SunMouse" type Program.

Fred Fish PD-Serie. Disk N\textdegree{} 111.  
Includes Source.

Author : Davide P. Cervone.

### 1.145 id-handler

```
ID-Handler  v1.0
-----
```

An AmigaDOS Device Dandler, that generates unique identifiers.  
Generates a new unique 16 digit decimal number each time it is opened  
by an application.

Fred Fish PD-Serie. Disk N\textdegree{} 87  
Includes source.

Author : Ed Puckett.

### 1.146 ip-handler

```
IP-Handler
-----
```

Support Handler for "PolySiliCon", which is a centralized Shell/CLI-  
interface with visible scrollable History and mouse access.

Allows multiple Shells to be controlled from a single command/history  
Window.

Commands can be re-executed with a Mouse click.

A group of commands for a project may be loaded into the history from a

---

file for easy access.  
Compatible with both v1.3 and v2.0 AmigaDOS.  
  
Fred Fish PD-Serie. Disk N\textdegree{} 504.  
  
Author : Pete Goodeve.

### 1.147 ixpipe-handler

IXPipe-Handler  
-----  
????

### 1.148 janus.handler

Janus.Handler  
-----  
????

### 1.149 jm-handler

JM-Handler  
-----

Support Handler for the "Job Manager" program.

"Job Manager" is a utility which extends the 'AmigaDOS' multitasking environment by providing features such as: allocation of CPU cycles in any ratio to multiple CPU bound processes, default task priorities based on task name, task logging, system uptime reports, task CPU use and CPU % reports, task invocation times, and more.

"Job Manager" has very little impact on the system itself.  
Requires AmigaDOS 2.04 or later.

Fred Fish PD-Serie. Disk N\textdegree{} 647.

Autor : Steve Koren.

### 1.150 keymacro-handler

KeyMacro-Handler  
-----

Handler to connect the "KeyMacro" program with the  
Keyboard.device

"KeyMacro" is a keyboard macro program, configurable via a text file,  
that also supports hotkey program execution.

---

You can map up to eight functions to each key, including keys such as cursor-keys, the return key, etc.

Fred Fish PD-Serie. Disk N\textdegree{} 535.  
Includes source in 'C' and 'Assembly' language.

Author : Olaf 'Olsen' Barthel.

## 1.151 keymenu-handler

KeyMenu-Handler v1.0  
-----

An alternative to Intuitions method of menu selection via the keyboard. Uses one key to activate the menu for the currently active Window, the cursor keys to move through the menu as you choose, and the return key to select the desired menu item or escape key to abort selection.

Works with AmigaDOS 2.0 mouse accelerator and has option to blank Intuition's pointer.

Fred Fish PD-Serie. Disk N\textdegree{} 528.  
Includes 'Assembly' Source.

Author : Ken Lowther.

## 1.152 kingcon-handler

KingCON-Handler v1.3  
-----

Connect the

Keyboard.device  
with "KingCON", which is a very powerful  
and clever replacement for the new CON: under System 2.xx+, that's still  
not good enough (at least not compared to KingCON, which is great...  
I use it all the time...).

Autor : David Larsson.

## 1.153 lh-handler

Lh-Handler v1.5  
-----

This is a Program!!!!!! NOT a Handler!!!!!!

The "Lh-Handler"-program is a program that supplies the "LhA"-archiver, with a Graphic-User-Interface and can be started from 'CLI' as well as WorkBench.

SaarAG PD-Serie. Disk N\textdegree{} 483.

Autor : Frank Fenn.

## 1.154 lockdevice-handler

LockDevice-Handler  
-----

Support Handler for the "LockDevice" package.  
This is a package to protect filing Devices from being accidentally formatted.

Can be used with any filing Device and FileSystem.

Fred Fish PD-Serie. Disk N\textdegree{} 371.  
Includes Source.

Author : Olaf Barthel.

## 1.155 mdm-handler

MDM-Handler  
-----

Support Handler for Supra ZI MODEMs.

Can be found on the "AmiNet\_0294" CDROM in ":Hard/Drivr/".

## 1.156 msclock-handler

MSClock-Handler  
-----

Support Handler for the "MSClock" utility.

"MSClock" is a clock utility, which displays Memory, date, time and online time (if connected to another computer via modem) in the titlebar of the WorkBench screen.

Fred Fish PD-Serie. Disk N\textdegree{} 484.

Autor : Martin Stepler.

## 1.157 mouse-handler

Mouse-Handler v1.0  
-----

????

## 1.158 my-handler

---

```
-----
                        My-Handler
-----
Support Handler for "CONMAN", which is an old replacement for the
standard console.
It is no longer needed since DOS 2.xx+ now has all its functions as
standard.
Has also now been replaced by the
                        CONHandler
                        .

Fred Fish PD-Serie. Disk N\textdegree{} 90.

Author : William Hawes.
```

### 1.159 mymenu-handler

```
-----
                        MyMenu-Handler
-----
This program allows you to add your own menus to the WorkBench menu
strip, to run commonly used commands, just like
                        ToolsDaemon-Handler
                        .

"MyMenu" will allow you to execute both CLI and WorkBench programs, and
is configured with a normal text file.

Fred Fish PD-Serie. Disk N\textdegree{} 225.
Includes source.

Author : Darin Johnson.
```

### 1.160 netdnet-handler

```
-----
                        NetDNet-Handler
-----
The Software Distillery's NetWork FileSystem Handler (NET:), using
Matt Dillon's "DNET" to mount one Amiga's Devices on another Amiga.
Also serves as an example FileSystem Written entirely in 'Lattice C'.

Fred Fish PD-Serie. Disk N\textdegree{} 248.
Includes Source.

Author : Doug Walker.
```

### 1.161 netpnet-handler

```
-----
                        NetPNet-Handler
-----
Handler for "ParNET".
```

---

Fred Fish PD-Serie. Disk N\textdegree{} 400.

Author : Doug Walker.

## 1.162 newcon-handler

```
-----
NewCON-Handler
-----
Handler to connect Shell under 'AmigaDOS' v1.3 with
Keyboard.device
and to connect Shell with 'AmigaDOS' itself.
Only needed under 'AmigaDOS' v1.3 since NewCON: is replaced completely
with CON: with 'AmigaDOS' v2.xx+.

Part of System software 1.3.

Autor : Commodore Amiga.
```

## 1.163 nfs-handler

```
-----
NFS-Handler
-----
Support Handler for "DNET".

Fred Fish PD-Serie. Disk N\textdegree{} 294.

Author : Matt Dillon.
```

## 1.164 nl-handler

```
-----
NL-Handler
-----
NewLook-Handler.

Handler used by "NL-Daemon" to replace the old WB1.3 Gadget images,
with better looking "NL-Daemon" counterparts.
"NL-Daemon" implements the New Look even for programs that were not
designed to take advantage of it.

This system is no longer needed with the improved looks of WB2.xx+.

Fred Fish PD-Serie. Disk N\textdegree{} 497.

Autor : Davide P. Cervone.
```

## 1.165 null-handler

---

```

NULL-Handler   v0.0
-----
Handles the PD replacement for NIL: called NULL:

Fred Fish PD-Serie. Disk N\textdegree{} 188.

Autor : Gunnar Nordmark.

```

## 1.166 path-handler

```

Path-Handler
-----
A Handler that allows you to selectively control or assign your
system's search path using script-files.
An interesting concept in path-searching.

Fred Fish PD-Serie. Disk N\textdegree{} 177.
Includes Source.

Author : Rico Mariani.

```

## 1.167 pipe-handler

```

----- PIPE-Handler
-----
Handler for the PIPE: unit which allows two tasks to exchange data.
PIPE: needs to mounted.
Under 'AmigaDOS' v2.xx+ this Handler no longer exists because its job
has been taken over by the new
    Queue-Handler
    .

Part of the System software v1.3.

Autor : Commodore Amiga.

```

## 1.168 plt-handler

```

PLT-Handler
-----
This is an HPGL Interpreter which prints the result to any preference
Printer.

Fred Fish PD-Serie. Disk N\textdegree{} 918, where it is in the "MultiPlot"- ↔
Drawer.

```

---

## 1.169 port-handler

Port-Handler v40.1  
-----

Handles the 'AmigaDOS' communication with the world outside it, though its ports.

Part of the System software.

Autor : Commodore Amiga.

## 1.170 powersnap-handler

PowerSnap-Handler v37.520  
-----

Connect the "PowerSnap"-commodity with  
Keyboard.device  
and CON:

"PowerSnap" is a utility that allows you to use the mouse to mark characters anywhere on the screen, and then paste them somewhere else, such as in another CLI or in a string gadget.

Checks what Font is used in the window you snap from and will look for the position of the characters automatically.

Recognizes all non-proportional fonts of up to 24 pixels wide and of any height.

Works with AmigaDOS 2.0 in both Shell and WorkBench environments.

Fred Fish PD-Serie. Disk N\textdegree{} 968.

Autor : Nico Francois. (Yes, Nico is his first name)

## 1.171 print-handler

Print-Handler  
-----

A custom PRT: Driver, which offers easy single sheet support as well as limited data spooling.

Fred Fish PD-Serie. Disk N\textdegree{} 352.  
Includes Source in 'C'.

Author : Olaf Barthel.

## 1.172 privilege-handler

Privilege-Handler  
-----

A privilege violation Handler for the 68010 CPU.

---



Survives a reboot so you can use it with copy protected programs, that run from boot.

Fred Fish PD-Serie. Disk N\textdegree{} 230.  
Includes source in 'Assembly' code.

Author : John Veldthuis.

### 1.173 prospool-handler

```
ProSpool-Handler  v1.0  
-----  
????
```

Author : Eyo Sama.

### 1.174 queue-handler

```
Queue-Handler  v37.12  
-----  
The new replacement for the old  
PIPE-Handler  
from AmigaDOS v1.3.  
This handler also handles some other jobs as well.  
  
Part of the System software v2.xx+.  
  
Autor : Commodore Amiga.
```

### 1.175 ram-handler

```
RAM-Handler  
-----  
Connect 'AmigaDOS' with  
RAMDrive.device  
.  
Also used for some other purposes.  
  
Part of the System software.  
  
Autor : Commodore Amiga.
```

### 1.176 rcon-handler

```
RCON-Handler  v1.4  
-----  
A replacement for the CON: of Amiga-OS 2.x / 3.x.
```

---

Has many new features including scrolling back text which has disappeared, enhanced copy & paste support, window iconification, output logging, print window contents, and much more.

Fred Fish PD-Serie. Disk N\textdegree{} 972.

Author : Gerhard Radatz.

## 1.177 rfp-handler

----- RFP-Handler v1.0 -----

RFP-Handler provide character access to block devices.

RFP-Handler provides an interface between the Amiga  
DOS.library  
and a

TrackDisk.device  
-type block devices.

The Handler provides a Device interface similar to the /Dev/RFP0 type  
Device interfaces commonly found on UNIX systems.

It supports reading, writing and seeking.

SaarAG PD-Serie. Disk N\textdegree{} 579.

Autor : Anders Hammarquist.

## 1.178 sd-aux-handler

----- SD-AUX-Handler v1.5 -----

????

Can be found on the "AmiNet\_0294" CDROM in ":COMM/Misc/".

Author : Steve Drew.

## 1.179 speak-handler

----- Speak-Handler v37.4 -----

Handler that connects AmigaDOS and  
Narrator.device  
for SPEAK: unit.

Part of the System software.

Autor : Commodore Amiga.

---

## 1.180 spool-handler

Spool-Handler  
-----

A DOS Handler, that implement a Print Spooling System.  
Like PRT:, this DOS Handler waits for stuff to be sent to it to be printed.

Fred Fish PD-Serie. Disk N\textdegree{} 216.

Author : Daniel Barrens.

## 1.181 swindows-handler

SWindows-Handler  
-----

A Handler, that allows you to use the title of a Window to specify the Screen on which the Window will appear.

This provides a method of opening CON: and RAW: Windows on Screens other than the WorkBench, for example.

Fred Fish PD-Serie. Disk N\textdegree{} 500.  
Includes Source.

Author : Davide P. Cervone.

## 1.182 tape-handler

Tape-Handler  
-----

A SCSI-Direct Tape Handler that implements fully asynchronous double-buffered Read and Write operations.

If you have Disk/Tape drives which support reselection, then the Handler will be able to operate on the Tape concurrently with Disk accesses, meaning that an archiver, such as "TAR", will not freeze while Tape operations are in progress.

Fred Fish PD-Serie. Disk N\textdegree{} 791.

Autor : Matthew Dillon.

## 1.183 textplus-handler

TextPlus-Handler  
-----

Support Handler for the "TextPlus" frontend word processor.

Fred Fish PD-Serie. Disk N\textdegree{} 700.

Autor : Martin Stepler.

---

## 1.184 toolsdaemon-handler

ToolsDaemon-Handler v37.275  
-----

Support Handler for the "ToolsDaemon" utility.

"ToolsDaemon" allows you to create your own Pull-Down-Menus on the WorkBench screen.

Fred Fish PD-Serie.

Autor : Nico Francois. (Yes, Nico is his first name)

## 1.185 unixdirs-handler

UNIXDIRs-Handler  
-----

A Handler which intercepts calls to  
DOS.library  
to add the UNIX-  
style '.' and '..' syntax for current and parent directories,  
respectively, to file and path names.

I.E., you can refer to files in the current Directory as './foo' and  
files in the parent Directory as '../foo', or any combination of the  
two.

Fred Fish PD-Serie. Disk N\textdegree{} 321.  
Includes Source in 'Assembly'.

Author : Murray Bennett and Mark Cyster.

## 1.186 vscreen-handler

VScreen-Handler  
-----

Allows you to have screens that are larger than the actual display area  
of your monitor.

These larger "virtual screens" scroll when you move the mouse off the  
edge of the visible section of the screen.

Currently does not work under AmigaDOS v2.0, but this feature is  
already built-in AmigaDOS v2.0, so it doesn't matter.

Fred Fish PD-Serie. Disk N\textdegree{} 494.  
Includes Source.

Author : Davide P. Cervone.

## 1.187 wbstart-handler

---

WBStart-Handler v1.4  
-----

"WBStart" is a package to emulate the WorkBench startup procedure, by loading a program, creating a process for it, and then sending it a WB startup message.

This is the Handler, which does the starting of the processes for you and then waits for the startup reply messages.

Fred Fish PD-Serie. Disk N\textdegree{} 896.

Autor : Stefan Becker.

## 1.188 wkeys-handler

WKeys-Handler  
-----

Support Handler for "WKeys", a "hot-keys" Program that binds Keyboard function keys to window manipulation functions (window activation, front to back, moving screens, etc).

Fred Fish PD-Serie. Disk N\textdegree{} 128.  
Includes Source.

Author : Davide P. Cervone.

## 1.189 xfh-handler

XFH-Handler v1.34  
-----

"XFH", when used with "XPK", makes it possible to store data in compressed format without this being visible to the user or to application programs - "XFH" will make the compressed data appear like ordinary files.

"XFH" is implemented as an 'AmigaDOS' Device Handler. Like other Handlers, "XFH" must be mounted before it can be used. Unlike most other 'normal' Device Handlers, "XFH" needs additional information to function correctly.

"XFH" provides 'options' which provide much more flexibility and which MUST be used if the Handler is to compress files automatically as they are written by applications.

Fred Fish PD-Serie. Disk N\textdegree{} 754.

Autors : Kristian Nielsen & Matthias Scheler.

## 1.190 xpk-handler

---

XPk-Handler v1.0  
-----

The XPk-Handler is yet another Handler that, when used with "XPk", makes it possible to store data in compressed format without this being visible to the user or to application programs.

This one work very much like the  
XFH-Handler  
, and is also based on  
that Handler.

Which one of the Handlers to choose is just a matter of taste!

SaarAG PD-Serie. Disk N\textdegree{} 488.

Autor : Torsten Jürgeleit.

## 1.191 zoom-handler

Zoom-Handler  
-----

Adds a 'Zoom' Gadget to every Window that can be resized. Pressing this Gadget makes the Window as large as possible or as small as possible, or brings it back to its normal size. This feature is already built-in AmigaDOS v2.0, so this Handler is only usefull on earlier DOS-versions.

Fred Fish PD-Serie. Disk N\textdegree{} 498.  
Include Source.

Author : Davide P. Cervone.

## 1.192 6581sid.library

6581SID.library v1.1  
-----

???? (Maybe to do with sound).

## 1.193 68040.library

68040.library v37.30  
-----

This Library does some 68040-specific things. The most important is the Emulation of the FloatingPoint-Processor. The 68040 recognizes some instructions, such as the FMUL and CPUSH, which do not cause execeptions.

There are some instructions, that the 68040 recognizes as valid 68881/68882 Floating-Point instructions, but as Floating-Point instructions, that the Processor cannot complete in HardWare, and

therefore cause an un-implemented instruction exeception.

The instructions: FACOS FASIN FATAN FATANH FCOS FCOSH  
 FETOX FETOXM1 FGETEXP FGETMAN FINT FWOTOX  
 FINTRZ FLOG10 FLOGN FLOGNP1 FMOVECR FSIN  
 FSINCOS FSINH FTAN FTANH FTENTOX FMOD  
 FREM FSCALE

The 68040.library emulates these instructions.

This Library makes no sense for users, which don't have a 68040.

The code was developed by Motorola.

## 1.194 accounts.library

Accounts.library v37.5  
 -----

Support Library for Commodore's new peer-to-peer Amiga networking package "Envoy".

Author : Commodore Amiga.

## 1.195 adpro.library

ADPro.library v3.23  
 -----

Support Library for "Art Department Professional".

## 1.196 aedoor.library

AEDoor.library v2.2  
 -----

????

## 1.197 ak\_gen0.library

AK\_Gen0.library v36.52  
 -----

A programmers Library for all the standard Intuition handling of Menus, Windows, Screens, Gadgets, Images, etc, etc, etc...

Taifun PD-Serie. Disk N\textdegree{} 228.

Author : Andreas Ralph Kleinert.

## 1.198 amigaguide.library

AmigaGuide.library v40.4  
-----

This is the support Library for the "AmigaGuide" viewing system wich you are using right now!

This Library is part of the System software version 2.1+.

If you want the Amigaguide.library and the full "AmigaGuide"-system, it is supplied by Commodore via the Fred Fish PD-serie on Disk N\textdegree{} ← 920.

But why bother, if you are reading this, you already have the Library, just check the version number :-)

Author : Commodore Amiga.

## 1.199 amos.library

AMOS.library v2.00  
-----

Support Library for 'AMOS' ????

## 1.200 analyser.library

Analyser.library v2.0  
-----

????

## 1.201 arp.library

ARP.library v40.2  
-----

'AmigaDOS' Replacement Project.

Pattern matching for strings and for directories, sending packets to 'DOS'.

ARP is an effort started on BIX and led by Charlie Heath of Microsmiths Inc., to replace the 'AmigaDOS' in a compatible fashion, so that current programs will continue to work.

ARP also makes whatever improvements are possible, so that current and future programs will work better.

Included in the ARP, is also a replacement of all the 'BCPL' 'AmigaDOS' programs with assembly equivalents.

Fred Fish PD-serie. Disk N\textdegree{} 123.

Author: Various authors contributed work,  
Including Charlie Heath, Scott Ballantyne,  
and others...

---



## 1.202 asdg-gpib.library

ASDG-GPIB.library v21.3  
-----

????

## 1.203 asdg-low-mem.library

ASDG-Low-Mem.library v0.0  
-----

This Library is a low memory server, which is a compact shared Library which allows arbitrary processes to register their desire to be notified of impending memory shortages.

This allows good citizen programs to free up memory that they may not need, so other programs can use it.

Fred Fish PD-Serie. Disk N\textdegree{} 85.

Author : Perry Kivolowitz.

## 1.204 asimphoto.library

AsimPhoto.library v1.1  
-----

Support Library for the Kodak PhotoCD images Reader & converter Program called "AsimPhoto" supplied with the CDROM FileSystem called "AsimCDFS".

Author : Paul Reeves.

## 1.205 asl.library

ASL.library v40.6  
-----

File and font requesters.

This library is part of the System software version 2.xx+

Author : Commodore Amiga.

## 1.206 apig.library

APIG.library v3.3  
-----

'ARexx' Programmers Intuition Graphics Library.

APIG is an 'ARexx' external function Library similar to the

---

```
    RexxARplib.library
.  APIG.library provides the 'ARexx' programmer with
access to most of the resident
    Graphics.library
    '
    Intuition.library
    and
    Layers.library
.
Allows you to create custom Screens/Windows, Gaddets, Requesters,
IntuiText, Borders, etc.

Fred Fish PD-Serie. Disk N\textdegree{} 634.

Author : Ronnie E. Kelly.
```

### 1.207 aspig.library

```
ASPIG.library  v1.1
-----
????
```

### 1.208 atari.library

```
Atari.library  v1.0
-----
????
```

### 1.209 avdb.library

```
AVDB.library  v2.2
-----
????
```

Can be found in "LIBS" on the "Games3" CDROM.

### 1.210 avtextgad.library

```
AVTextGad.library  v1.1
-----
????
```

Can be found in "LIBS" on the "Games3" CDROM.

---

### 1.211 axtools.library

```
AxTools.library    v2.7  
-----  
????
```

### 1.212 bas\_runtime.library

```
Bas_Runtime.library    v2.8  
-----  
This is a runtime Library which is used by a program called "Cursor",  
which is a compiler for 'AmigaBASIC'.  
  
Fred Fish PD-Serie. Disk N\textdegree{} 347.  
  
Author : Jürgen Forster.
```

### 1.213 bootblock.library

```
BootBlock.library    v3.1  
-----  
Library to support Virus-hunters released from SHI, with a BrainFile  
of BootBlocks, that way making virus hunter programs smaller.  
  
Fred Fish PD-Serie. Disk N\textdegree{} 919.  
  
Author : Johan Eliasson.
```

### 1.214 boxer.library

```
Boxer.library  
-----  
????
```

### 1.215 bullet.library

```
Bullet.library    v38.9  
-----  
Bullet/Outline font routines.
```

### 1.216 cachemap.library

```
CacheMap.library    v34.5  
-----  
Support Library for the "FinalWriter" Word Processing Program.
```

---

## 1.217 camd.library

```
CamD.library    v37.14
-----
????
```

## 1.218 cando.library

```
CanDo.library
-----
```

Support Library for the "CanDo" MultiMedia Package.

Comes with "CanDo".

Can be found on the "Games3"-CDROM in "Games3:PD/DIY\_Game/Libs/".

## 1.219 cclib.library

```
CCLib.library   v3.0
-----
```

An implementation of the standard 'C' runtime library, with a few extra goodies thrown in.

Supports a large number of functions including stream Input/Output, low-level Input/Output, string, memory, linked list, sorting, time, process control and more...

Fred Fish PD-serie. Disk N\textdegree{} 399.  
Source and several utility programs included.

Author : Robert W. Albrecht.

## 1.220 cia.library

```
CIA.library     v39.1
-----
```

Routines for allocating the CIA Devices.

Part of the System SoftWare.

Author : Commodore Amiga.

## 1.221 clist.library

```
CList.library
-----
```

Routines for working with character-lists.

Author : Commodore Amiga.

---

## 1.222 cnet.library

```
CNET.library    v1.0
-----
????
```

## 1.223 color.library

```
Color.library   v1.0
-----
"ColorTool" Library.

Author : Dissidents SoftWare.
```

## 1.224 commodities.library

```
Commodities.library   v40.2
-----

All programs which act as a Commodity, including the "Exchange"-
program, use this library.
This Library was developed by the need of a better Input-event
management.
Commodities can wait in the background without using one cycle of
processor-time, and can be waked up by pressing a specific Hot-Key.

This library is part of the System software version 2.xx+.

Author : Commodore Amiga.
```

## 1.225 con.library

```
Con.library    v2.0
-----

A run time reentrant Library, developed with the purpose of making
life easier for application programmers.
It contains functions to format and display text, accept keys/messages,
strings or numbers and to handle cursor and screen control, among
other things.

Fred Fish PD-serie. Disk N\textdegree{} 587.
Includes sources.

Author : Bjørn Reese.
```

## 1.226 conhandler.library

---

ConHandler.library v36.17  
-----

Support Library for "CONMAN", which is an old replacement for the standard console.

It is no longer needed since DOS 2.xx+ now has all its functions as standard.

Fred Fish PD-Serie. Disk N\textdegree{} 426.

Author : William Hawes.

## 1.227 console.library

Console.library  
-----

Contains graphic-routines for text-output to console-windows.

Author : Commodore Amiga.

## 1.228 crm.library

CrM.library v4.1  
-----

Crunch-Mania Interface for Library decrunching Executables and Data Files.

Author : Thomas Schwarz.

## 1.229 das.library

DAS.library v9.1  
-----

Support Library for the music modules player called "DASModPlayer".

Makes use of Sub-Libraries in the form  
DAS<protocol>.library  
to work.

Author : Pauli Porkka.

## 1.230 das<protocol>.library

DAS<protocol>.library  
-----

These are the Sub-Libraries for the music module player "DASModPlayer".

dasDSS0.library v1.11 GVP Digital Sound Studio Modules.

---

```
dasFC13.library    v0.3    FutureComposer v1.0 -> v1.3 Modules.
dasFC14.library    v0.3    FutureComposer v1.4 Modules.
dasMMD0.library    v2.5    (Octa)Med 4/8 Modules.
dasQC20.library    v2.1    QuadraComposer v2.0 EMOD Modules.
dasS3M0.library    v2.17   ScreamTracker III Modules.
```

Authors: Pauli Porkka, Teijo Kinnunen, Bo Lincoln,  
Calle Englund and Jarno Paanaen.

### 1.231 datatypes.library

```
DataTypes.library  v40.6
-----
```

This is the support for the Datatypes-system under AmigaDOS v3.0.  
I'm only running AmigaDOS v2.1, so thats all I can tell you.

### 1.232 dctv.library

```
DCTV.library      v3.48
-----
```

Library for special system functions in the DCTV-Amiga-System.

While the program is Copyrighted and Non-Distributable, the Library is fully distributable.

This Library is actually used by some standalone programs independent of the DCTV unit to convert files between various formats.

Thus can be found on some PD-Disks.

### 1.233 dctv\_r3d.library

```
DCTV_R3D.library  v40.0
-----
```

Library to link "Real3D-v2" with "DCTV".

Comes with "Real3D-v2".

Author : RealSoft.

### 1.234 debox.library

```
DeBox.library     v1.7
-----
```

????

Authors: William A. Ware & R. K. Von Wolfsheils.

---

### 1.235 debug.library

```
-----
                Debug.library    v1.0
-----
Support Library for an external Utility called "Debug" included in the

                MultiUserFileSystem
                package.

Author: Norbert Puschel.
```

### 1.236 decrunch.library

```
-----
                DeCrunch.library  v35.237
-----
Decrunch routines.

The functions of this Library has now been taken over completely be the

                XFD.library
                , making this Library obsolete.
```

### 1.237 destracker.library

```
-----
                DesTracker.library v1.4
-----
A Library for playing Music Modules.

SaarAG PD-Serie. Disk N\textdegree{} 488.

Author : Darren Schebek.
```

### 1.238 dicecache.library

```
-----
                DICECache.library  v3.58
-----
A File caching Library which can automatically be used by Programs
compiled using "DICE v3.0".

Supplied with "DICE v3.0".
```

### 1.239 digitafont.library

```
-----
                DigitaFont.library v1.0
-----
Support Library for the "WordWorth" Word Processing Program.
```

---



Comes with "WordWorth".

Author : DigitaSoft.

### 1.240 digitaintellifont.library

DigitaiNtelliFont.library v1.0  
-----

Support Library for the "WordWorth" Word Processing Program.

Comes with "WordWorth".

Author : DigitaSoft.

### 1.241 digitapostscript.library

DigitaiPostScript.library v1.0  
-----

Support Library for the "WordWorth" Word Processing Program.

Comes with "WordWorth".

Author : DigitaSoft.

### 1.242 digitatruetype.library

DigitaiTrueType.library v1.0  
-----

Support Library for the "WordWorth" Word Processing Program.

Comes with "WordWorth".

Author : DigitaSoft.

### 1.243 dg<xxxxxxxx>.library

DG<xxxxxxxx>.library  
-----

A serie of Libraries with unknown purpose.

Can be found on the "Pandoras CD" from Optonica Ltd.

Author : Optonica Ltd.

---

## 1.244 dialog.library

Dialog.library v1.0  
-----

Shared Library for automatically LayOuted dialog boxes in 'C'.

SaarAG PD-Serie. Disk N\textdegree{} 551.

Author : Stefan Reisner.

## 1.245 digisoftsupport.library

DigiSoftSupport.library  
-----

Support Library for Digisoft products, such as "Macro68".

## 1.246 din.library

Din.library v36.3  
-----

A Library that allows you to share image and text objects between programs.

The Din.library is ideal if you want to write an editor and a DTP program that can share text, or a drawing program and a DTP program that can share a brush.

Requires 'AmigaDOS' 2.xx.

Fred Fish PD-Serie. Disk N\textdegree{} 414.  
Some source included.

Author : Jorrit Tyberghein.

## 1.247 dis.library

Dis.library v1.21  
-----

An 'AmigaDOS' shareable Library which implements a symbolic single-instruction disassembler for the MC68000 family.

Fred Fish PD-serie. Disk N\textdegree{} 240.  
Includes source in 'Draco'.

Author : Chris Gray.

## 1.248 disassemble.library

---

```
Disassemble.library
-----
68000 disassembler routines.

AmigaLibDisk.
```

### 1.249 dised.library

```
Dised.library v0.0
-----
Editor functions.

Author : Dissidents Software.
```

### 1.250 diskcode.library

```
DiskCode.library v4.1
-----
????
```

### 1.251 diskcontroller.library

```
DiskController.library v38.004
-----
????
```

### 1.252 diskfont.library

```
DiskFont.library v39.3
-----
Handles font files.
Earlier versions do not support CG fonts.

Part of the System software.

Author : Commodore Amiga.
```

### 1.253 dopus.library

```
DOpus.library v22.6
-----
"DirectoryOpus" main Library.

Comes with "DirectoryOpus".

Author : Jonathan Potter.
```

---

## 1.254 dorex.library

```
Dorex.library  v1.5
-----
"DirectoryOpus" 'ARexx' support Library.

Comes with "DirectoryOpus".

Author : Jonathan Potter.
```

## 1.255 dos.library

```
DOS.library  v39.23
-----
Routines for managing data streams.

Part of the System software.

Author : Commodore Amiga.
```

## 1.256 downloader.library

```
Downloader.library  v3.1
-----
Support Library for the "FinalWriter" Word Processing Program.
```

## 1.257 dres.library

```
DRes.library  v1.4
-----
Support Run-Time Library with lots of functions, including a generic
parser and IPC.

Fred Fish PD-Serie. Disk N\textdegree{} 169.

Author : Matt Dillon.
```

## 1.258 ds.library

```
DS.library  v1.0
-----
????
```

## 1.259 duplexfont.library

DuplexFont.library v1.0  
-----

Scaleable font for "VLT".

Fred Fish PD-serie. Disk N\textdegree{} 455.

## 1.260 dynamic.library

Dynamic.library v36.1  
-----

A shared Library which provides dynamic object linking and loading. When a program requests a variable or procedural symbol the Library will dynamically load the appropriate object module into memory. Furthermore, the Library will load any additional object modules required for the requested one to function, thereby providing a linking capability.

## 1.261 egs<xxxxxxxx>.library

EGS<xxxxxxxx>.library  
-----

This is some of the retargetable graphics system Libraries.

The rest of them come in the form

GB<xxxxxxxx>.library

These and the others are the Libraries for ECS and AGA equipped Amigas. The idea is that if a program is written using these Libraries, the display can be changed to another more modern/faster/larger display unit and any program that uses the Libraries will immediately take advantage of the new board, just by using the Library, instead of being rewritten. There are Libraries for the GVP EGS Card, the Picasso Card and the Rainbow III Card.

Version numbers are:

EGS.library	v2.081	EGSIntui.library	v4.169
EGSBlit.library	v2.039	EGSLayers.library	v3.019
EGSGadBox.library	v3.023	EGSRequest.library	v2.028
EGSGFX.library	v2.089		

These are all from the demo version, so actual version numbers may be different.

The Libraries can be found on the AmiNET CD-ROM in AmiNET/Dev/Misc/ and the file is EGSLIBS.LHA.

## 1.262 empire.library

Empire.library v1.0  
-----

Shared portion of the game "Empire".

Fred Fish PD-Serie. Disk N\textdegree{} 357.

Authors: Chris Gray, David Wright and Peter Langston.

## 1.263 envoy.library

Envoy.library v37.15  
-----

Support Library for Commodore's new peer-to-peer Amiga networking package "Envoy".

Author : Commodore Amiga.

## 1.264 epu0.library

EPU0.library v1.1  
-----

This Library along with  
EPU1.library  
are compression Libraries, which  
are used by "EPU" to provide compression.

"EPU" is a Program like "Stacker" or "XPK" that allows applications to access compressed data from AmigaDOS Devices without knowing that the data is compressed, and automatically compresses new data.

The file size is not limited by memory and the settings of the Handlers can be changed at any time.

"EPU" also need the  
EPU<x>.Handlers  
and the  
Lh.library  
to work.

Fred Fish PD-Serie. Disk N\textdegree{} 858.

Author : Jaroslav Mechacek.

## 1.265 epu1.library

EPU1.library v1.1  
-----

This Library along with  
EPU0.library  
are compression Libraries, which  
are used by "EPU" to provide compression.

"EPU" is a Program like "Stacker" or "XPK" that allows applications to

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access compressed data from AmigaDOS Devices without knowing that the data is compressed, and automatically compresses new data.

The file size is not limited by memory and the settings of the Handlers can be changed at any time.

"EPU" also need the  
EPU<x>.Handlers  
and the  
Lh.library  
to work.

Fred Fish PD-Serie. Disk N\textdegree{} 858.

Author : Jaroslav Mechacek.

## 1.266 exec.library

Exec.library v39.47  
-----

Routines to manage the System resources.

Part of the System software.

Author : Commodore Amiga.

## 1.267 expansion.library

Expansion.library v39.7  
-----

Routines for handling expansion slots.

Part of the System software.

Author : Commodore Amiga.

## 1.268 explode.library

Explode.library v6.1  
-----

Decrunch routines for the "Imploder".

Fred Fish PD-Serie.

Authors: Peter Struijk and Albert J. Brouwer.

## 1.269 extend.library

---

```
Extend.library    v1.41
-----
Inlay-Maker     ????
```

### 1.270 fastcall.library

```
FastCall.library  v2.3
-----
Modem communication support Library.

Authors: M.Brückner & Ebsche.
```

### 1.271 fastcall2.library

```
FastCall2.library v2.3
-----
????

Seems to be a renamed clone of the
FastCall.library
Authors: M.Brückner & Ebsche.
```

### 1.272 fastscan.library

```
FastScan.library  v1.105
-----
This Library is used by a "LS" and/or "DIR" clone called "DR" to
increase the scan speed.

Author : Paul Kienitz.
```

### 1.273 fcbbs.library

```
FCBBS.library     v2.2
-----
BBS support Library.

Author : M.Brückner.
```

### 1.274 fifo.library

---



```
FIFO.library    v37.4
-----
```

FIFO.library is a general FIFO Library implementation with the following features:

- Named FIFOs.
- Support for writing to a FIFO from a Hardware exception.
- Multiple readers on a FIFO supported, each get the same data stream.
- Efficient reading (no buffer copies on read).
- Automatic or manual (via message passing) flow control.

The uses for this library are limitless.  
Also part of "UUCP".

Fred Fish PD-Serie. Disk N\textdegree{} 588.

Author : Matt Dillon.

## 1.275 fileid.library

```
FileID.library  v5.1
-----
```

A shared Library for identifying Files by checking it's contents.

## 1.276 flam.library

```
Flam.library    v1.0
-----
```

????

## 1.277 flow.library

```
Flow.library
-----
```

????

Mail [rwm@atronx.ocunix.on.ca](mailto:rwm@atronx.ocunix.on.ca) for more info on Flow.library.

## 1.278 fontengine.library

```
FontEngine.library  v0.5
-----
```

????

---

## 1.279 fpu.library

FPU.library  
-----

Support library for FPU's.

Author : Perry S. Kivolowitz.

## 1.280 future.library

Future.library v1.0  
-----

Used by Futuresound audio digitizer.

Can be found in "LIBS" on the "Games3" CDROM.

## 1.281 fwarexx.library

FWARexx.library v3.0  
-----

Support Library for the "FinalWriter" Word Processing Program.

Linking "FinalWriter" with 'ARexx'.

## 1.282 fwfiltertype.library

FWFilterType.library v3.0  
-----

Support Library for the "FinalWriter" Word Processing Program.

## 1.283 fwpenpal.library

FWPenPal.library v3.0  
-----

Support Library for the "FinalWriter" Word Processing Program.

Linking "FinalWriter" with "PenPal".

## 1.284 fwprowrite.library

FWProWrite.library v3.0  
-----

Support Library for the "FinalWriter" Word Processing Program.

Linking "FinalWriter" with "ProWrite".

---

## 1.285 fwwordperfect.library

FWWordPerfect.library v3.0  
-----

Support Library for the "FinalWriter" Word Processing Program.

Linking "FinalWriter" with "WordPerfect".

## 1.286 fye.library

Fye.library v37.313  
-----

????

## 1.287 gadget.library

Gadget.library v38.9  
-----

????

## 1.288 gadlib.library

GadLib.library  
-----

????

Author : Anthony (who ????) .

## 1.289 gadoutline.library

GadOutLine.library v2.0  
-----

A shared Library intended to provide programmers with a means of describing the general layout of a GUI in a font-independent manner, taking care of the details of determining the exact placement of the individual elements of the display and the drudgery of creating and managing all of the gadgets.

In addition, it provides a very generalized mechanism for tracking the state of all of its gadgets to support automatic resizing and closing and opening of a window without loss of context.

Includes automatic hotkey support and a vector based drawing module, that can be used for everything from drawing frames around groups of gadgets to creating custom images for BOOPSI-gadgets.

Fred Fish PD-Serie. Disk N\textdegree{} 911.

Includes the Library, programmer support files and some examples.

Author: Dianne Hackborn.

---

## 1.290 gadtools.library

GadTools.library v39.356  
-----

Simplified gadget and menu routines.

Part of the system software version 2.xx+.

Author : Commodore Amiga.

## 1.291 gadtools13.library

GadTools13.library v34.13  
-----

????

## 1.292 gadtoolsbox.library

GadToolsBox.library v39.3  
-----

Support library for the "GadToolsBox"-program.

Fred Fish PD-Serie. Disk N\textdegree{} 842.

Author : Jan van den Baard.

## 1.293 garbagecollector.library

GarbageCollector.library v3.0  
-----

????

Author : Fridtjof Siebert.

## 1.294 gb<xxxxxxxx>.library

GB<xxxxxxxx>.library  
-----

This is some of the retargetable graphics system Libraries.

The rest of them come in the form

EGS<xxxxxxxx>.library

These and the others are the Libraries for ECS and AGA equipped Amigas. The idea is that if a program is written using these Libraries, the display can be changed to another more modern/faster/larger display unit and any program that uses the Libraries will immediately take advantage of the new board, just by using the Library, instead of being rewritten.

---

There are Libraries for the GVP EGS Card, the Picasso Card and the Rainbow III Card.

Version numbers are:

GBMenuSelect.library	v2.033	GBSets.library	v2.007
GBRadio.library	v2.017	GBTextInfo.library	v2.008
GBScrollBox.library	v2.018	GBTwoDimProp.library	v1.001
GBSelect.library	v2.043		

These are all from the demo version, so actual version numbers may be different.

The Libraries can be found on the AmiNET CD-ROM in AmiNET/Dev/Misc/ and the file is EGSLIBS.LHA.

### 1.295 gdarexxsupport.library

```
GDARExxSupport.library  v1.0
-----
Support Library for "GoldDisk".

Linking "GoldDisk" with 'ARExx'.
```

### 1.296 golddisk.library

```
GoldDisk.library  v1.0
-----
Main Library for "GoldDisk".
```

### 1.297 graphics.library

```
Graphics.library  v39.90
-----
Graphic routines.

Part of the System software.

Author : Commodore Amiga.
```

### 1.298 gwin.library

```
GWin.library  v2.0
-----

GWIN or Graphics WINDOW is an integrated collection of graphics
routines callable from 'C'.

These routines make it easy to create sophisticated graphics programs
in the 'C' environment.

One-line calls give you a custom screen (ten types available),
menu items, requesters, text, circles, polygons, etc, etc.
```

GWIN is a 2D floating point graphics system with conversion between world and screen coordinates.

GWIN includes built-in clipping that may be turned off for speed. Use of color and XOR operations are greatly simplified.

Fred Fish PD-serie. Disk N\textdegree{} 571.  
Many examples of the use of Gwin.library are included.  
Extensive documentation are included too.

Author : Howard C. Anderson.

### 1.299 hame.library

```
HAME.library    v5.1
-----
????
```

Author : Pete Patterson.

### 1.300 hardblocks.library

```
HardBlocks.library  v1.2
-----
```

A shared Library with support routines for Commodore's HardBlock standard.

Fred Fish PD-Serie. Disk N\textdegree{} 708.  
Includes source.

Author: Torsten Jürgeleit.

### 1.301 hdmem.library

```
HDMem.library    v2.0
-----
```

Support Library for the "HDMem" program, which allows the use of a HardDisk as virtuel memory.

Fred Fish PD-Serie. Disk N\textdegree{} 740.

Author : Stefan Rompf.

### 1.302 hisoftbasic.library

```
HiSoftBASIC.library  v1.04
-----
```

Library for 'HiSoftBASIC'.

---

### 1.303 hotlinks.library

```
HotLinks.library
-----
????
```

### 1.304 hr\_r3d.library

```
Hr_R3D.library 40.0
-----
Library to link "Real3D-v2" with the "Harlequin" GFX Board.

Comes with "Real3D-v2".

Author : RealSoft.
```

### 1.305 ias.library

```
IAs.library
-----
Fixed-point arithmetic routines.

Available for anonymous FTP from amiga.physik.unizh.ch.
```

### 1.306 icon.library

```
Icon.library v39.3
-----
Routines for manipulating Icons.

Part of the System software.

Author : Commodore Amiga.
```

### 1.307 iff.library

```
IFF.library v23.2
-----
An easy to use Amiga Library which gives you some powerfull
routines for dealing with IFF files, especially ILBM files (Pictures),
ANIM files (Animations), and 8SVX files (Digitized sounds).
It is written completely in 'Assembler' and is just 3Kb.

Fred Fish PD-serie. Disk N\textdegree{} 674.
Includes source and binaries for several example programs that use
the Library.
The version on that Fred Fisk disk is version 22.2, but there is a
```

---

version 22.3 floating around too. I don't know how to get version 23.2 or version 22.3, but if you want the version 22.3 you can get it from Fred Fish Disk N\textdegree{} 769, where it follows the program "ALook" by Trevor Andrews.

Author : Christian A. Weber.

### 1.308 iffparse.library

IFFParse.library v40.1  
-----

Modules to parse IFF files.

Part of the System software 2.xx+.

Author : Commodore Amiga.

### 1.309 iffpp.library

IFFPP.library v100.3  
-----

????

Author : Christian A. Weber.

### 1.310 ilbm.library

ILBM.library v0.5  
-----

A shared Library to Read/Write IFF files, derived from the EA-IFF code, along with various enhancements.

Can be used for non-ILBM files also.

100% compatible with original Electronic Arts code.

Fred Fish PD-serie. Disk N\textdegree{} 463.

Author : Jeff Glatt, Dissidents Software.

### 1.311 inet.library

INet.library  
-----

Part of Commodore's AS-225 package for the A2065 EtherNet board.

Author : Commodore Amiga.

---



### 1.312 info.library

Info.library v3.0  
-----

Used by Info/Information menu from Workbench.

Part of the System software.

Author : Commodore Amiga.

### 1.313 inovamusic.library

InovaMusic.library v3.1  
-----

Music module playing Library.  
Seems to support "PowerPacker" packed files.

Supplied with "DirectoryOpus".

Author : Carl W. Moore.

### 1.314 inovatools1.library

InovaTools1.library v3.1  
-----

Came with "PowerWindows2.5".

Author : Todor Fay.

### 1.315 instype.library

Instype.library v0.1  
-----

????

### 1.316 intuisup.library

IntuiSup.library v4.5  
-----

A shared Library with support routines for using texts, borders,  
gadgets, requesters and more, under 'AmigaDOS' v1.3.

Fred Fish PD-serie. Disk N\textdegree{} 722.  
Includes a template editor, source, test programs and documentation  
in "AmigaGuide"-format.

Author : Torsten Jurgeleit.

---

There are also a Library called  
 ISup.library  
 , but this Library is a  
 copied version of the IntuiSup.library. In the documentation the  
 IntuiSup.library is often called  
 ISup.library  
 , so someone must have  
 got messed up with the names and renamed it accidentally.

### 1.317 intuisupport.library

```
IntuiSupport.library  v1.1
-----
```

This Library follows a program called "PhoneList" by Michael Hoffmann  
 on Fred Fish Disk N\textdegree{} 862, but what it can/does and where to get the ↔  
 full  
 package with Documentation, Includes, Exambls, etc., I just can't find  
 out!  
 Anyone out there who can help me ????

### 1.318 intuition.library

```
Intuition.library  v39.2984
-----
```

Routines for managing windows, screens, and Input/Output to them.

Part of the System software.

Author : Commodore Amiga.

### 1.319 isam.library

```
ISam.library  v1.03
-----
```

This Library contains all a programmer needs to write database type  
 programs, and access records and files.

Even novice programmers can store and/or retrieve database records.  
 Powerful, multi-"user", almost unlimited number & size of  
 records/files. Different users may access same file, file and record  
 locking (exclusive or shared), multiple keys/file.

Keys may: ascend/descend, have unique/repeatable values,  
 be up to 499 bytes.

Many record retrieval methods.  
 Recover Index file if lost or corrupt.  
 Deleted record space reclaimed.  
 Usable from C, Assembler, ARexx, etc, etc, etc...

Fred Fish PD-Serie. Disk N\textdegree{} 953.  
 Can be found on AmiNET CD-ROM in AmiNET/Biz/DBase.

---

Author : Scott C. Jacobs.

### 1.320 isup.library

-----  
ISup.library v1.16  
-----

This is a copied version of the  
IntuiSup.library  
.

In the documentation the  
IntuiSup.library  
is often called  
ISup.library, so someone must have got messed up with the names and  
renamed it accidentally.

### 1.321 iv24\_r3d.library

-----  
IV24\_R3D.library v2.0  
-----

Library to link "Real3D-v2" with the "ImpactVision 24" 24Bit-GFX Board.

Comes with "Real3D-v2".

Author : RealSoft.

### 1.322 ixemul.library

-----  
Ixemul.library v39.47  
-----

This is a BSD compatibility Library for UNIX designed to be used  
with GCC/G++, but could possibly be used by other compilers with  
some work.

Very nice, particularly the signal handling.

Available for anonymous FTP on ab20.larc.nasa.gov.

Author : Markus Wild (Who also has done the GCC/G++ ports).

### 1.323 janus.library

-----  
Janus.library v33.1  
-----

This Library comes with the Amiga BridgeBoard, which gives the Amiga  
IBM-PC compatibility :-)

The BridgeBoard is often called "Janus" (Janus was a roman god with two

---

faces).

This Library should be located in the SYS:Expansion Drawer.

The Library is loaded by "BindDrivers" and provides the basis for all other "Janus"-SoftWare.

It provides communications with the PC-side BIOS extension known as the

Janus.Handler

.

### 1.324 jhextras.library

JHExtras.library v37.58

-----  
????

Fred Fish PD-Serie. Disk N\textdegree{} 953. (In the "ByteFilter"-Drawer).

Author : Jan Hagqvist.

### 1.325 joy.library

Joy.library v1.0

-----

This is a standalone Library to read the Joystick ports.  
For programmers to incorporate into their own programs.

Fred Fish PD-Serie. Disk N\textdegree{} 378.

Author : Oliver Wager.

### 1.326 joystick.library

Joystick.library v1.0

-----

A shared Library of Joystick routines featuring a technique which proves to be extremely fast on 68010 or higher processors, and still faster than most of the other routines on standard processors.

Fred Fish PD-Serie. Disk N\textdegree{} 378.  
Includes source for Library in Assembler and Demonstration program in C.

Author : Oliver Wagner.

### 1.327 kcx.library

KCX.library v2.5  
-----

Support Library for the multi-functional commodity called "KCommodity".

Author : Kai Iske.

### 1.328 kd\_freq.library

KD\_FReq.library v3.13  
-----

Extensive file requester.

Comes with a patch to use it when a program calls the  
ARP.library

Nice requester, rather large, never caught on.

SaarAG PD-Serie. Disk N\textdegree{} 323.

### 1.329 keymap.library

Keymap.library v39.2  
-----

Routines for dealing with keymaps.

Part of the System software.

Author : Commodore Amiga.

### 1.330 kwreq.library

KWreq.library v1.0  
-----

Support Library for the "KindWord" Word Processing Program.

### 1.331 kwspell.library

KWspell.library v1.1  
-----

Support Library for the "KindWord" Word Processing Program.

### 1.332 layers.library

Layers.library v39.61  
-----

Routines to handle Graphic 'Layers' for doing Window depth and clipping.

Part of the System software.

Author : Commodore Amiga.

### 1.333 Idscr.library

LDSCR.library  
-----

????

### 1.334 lh.library

Lh.library v1.8  
-----

A shared reentrant Amiga runtime Library featuring highly optimized 'Assembly' language versions of the LhArc data compression decompression routines.

Compress faster and more efficiently than any other currently available implementation of the LzHuf-algorithm.

Fred Fish PD-serie. Disk N\textdegree{} 436.

Authors: Holger P. Krekel & Olaf 'Olsen' Barthel.

### 1.335 locale.library

Locale.library v40.4  
-----

Routines for controlling Locale-Prefs.

Part of the System software version 2.1+.

Author : Commodore Amiga.

### 1.336 lowlevel.library

LowLevel.library v40.35  
-----

???? (Library from OS3.1/CD32 ?)

Can be found on the 'Amiga User International' CoverCDROM.

Author : Commodore Amiga.

---

### 1.337 mach.library

```
Mach.library
-----
????
```

### 1.338 macro68.library

```
Macro68.library
-----
"Macro68" main Library.
```

### 1.339 macro68cp.library

```
Macro68cp.library
-----
"Macro68" Floating Point processor support Library.
```

### 1.340 macro68hf.library

```
Macro68hf.library
-----
"Macro68" special function support Library.
```

### 1.341 macro68mp.library

```
Macro68mp.library
-----
"Macro68" automatic optimization support Library.
```

### 1.342 macro68op.library

```
Macro68op.library
-----
"Macro68" file output support Library for uncommon Output modes.
```

### 1.343 macro68ow.library

```
Macro68ow.library
-----
"Macro68" interactive optimization support Library.
```

---

### 1.344 masovision.library

```
-----  
MasoVision.library    v33.103  
-----  
Contains functions for (perhaps) smarter use of many functions of the  
  
    Intuition.library  
    .  
  
Comes with the Masoboshi GFX Digitizer.  
  
Author : Steffen A. Mork.
```

### 1.345 mathffp.library

```
-----  
MathFFP.library      v39.1  
-----  
FFP format math routines.  
  
Part of the System software.  
  
Author : Commodore Amiga.
```

### 1.346 mathieeedoubbas.library

```
-----  
MathIEEEdoubBas.library  v38.2  
-----  
Double precision IEEE basic math.  
  
Part of the System software.  
  
Author : Commodore Amiga.
```

### 1.347 mathieeedoubtrans.library

```
-----  
MathIEEEdoubTrans.library  v37.1  
-----  
Double precision IEEE transcendental math.  
  
Part of the System software.  
  
Author : Commodore Amiga.
```

### 1.348 mathieehybridtrans.library

```
-----  
MathIEEEHybridTrans.library  
-----  
Fast IEEE Library.
```

---



### 1.349 mathieeesingbas.library

MathIEEEsingBas.library v37.3  
-----

Single precision IEEE basic math.

Part of the System software.

Author : Commodore Amiga.

### 1.350 mathieeesingtrans.library

MathIEEEsingTrans.library v37.1  
-----

Single precision IEEE transcendental math.

Part of the System software.

Author : Commodore Amiga.

### 1.351 mathtrans.library

Mathtrans.library v37.1  
-----

FFP transcendental math.

Part of the System software.

Author : Commodore Amiga.

There is some faster versions floating around. Some which are written specifically for MC68020 and higher processors.

All these faster versions of the Library can be found in the Fred Fish PD-Serie, on Disk N\textdegree{} 884.

Someone told me that the

    QweMathtrans.library  
    is the faster version,

that just need to be renamed to mathtrans.library to work, but I haven't been able to get this confirmed.

Author : Martin Combs.

### 1.352 matrix.library

Matrix.library v23.1815  
-----

????

Author : David Swasbrook.

---

### 1.353 medplayer.library

MEDplayer.library v5.0  
-----

Library for playing "MED" modules.

Comes with "MED".

### 1.354 memory.library

Memory.library v37.0  
-----

Library for allocating Memory.

Author : Thomas Neuman.

### 1.355 metaxpr.library

MetaXPR.library v4.0  
-----

Support Library for Telecommunication.

SaarAG PD-Serie. Disk N\textdegree{} 554.

Author: Olaf 'Olsen' Barthel.

### 1.356 midi.library

MIDI.library v7.94  
-----

A Library that permits sharing of the serial port by MIDI applications through a MIDI message routing and processing system.

Fred Fish PD-Serie. Disk N\textdegree{} 227.

Author : Bill Barton.

### 1.357 mmu.library

MMU.library v7.0  
-----

MMU Control Hack.

Author : Børge Nøst.

---

### 1.358 mmv8.library

MMV8.library v11.93  
-----

"Music-Maker V8" support Library.

### 1.359 mtool.library

MTool.library v35.1  
-----

Some math functions and a bit of  
Intuition.library  
support.

Comes in normal and FPU versions.

Fred Fish PD-Serie. Disk N\textdegree{} 573.

Author : Ruediger Dreier.

### 1.360 muimaster.library

MUIMaster.library v7.973  
-----

Support Library for the "MUI" program (MagicUserInterface).

SaarAG PD-Serie. Disk N\textdegree{} 968.

Author : Stefan Stuntz.

### 1.361 multipic.library

MultiPic.library v2.5  
-----

????

### 1.362 multireq.library

MultiReq.library v1.20  
-----

A FileRequester Library, which fully MultiTask and has a great number  
of other features.

Written entirely in 'Assembler' to be small and fast.

Fred Fish PD-Serie. Disk N\textdegree{} 778.

Author : Andreas Krebs.

---

### 1.363 multiuser.library

MultiUser.library v39.164  
-----

Allows you to create a UNIX-like environment, where several users live together in harmony, unable to delete each others files, unable to read those private love-letters of other users :-)

And this even if several users are working on the machine at the same time (on a terminal hooked up to the serial port)!

Fred Fish PD-Serie. Disk N\textdegree{} 905.

Author : Geert Uytterhoeven.

### 1.364 mvd.library

MVD.library v34.23  
-----

For controlling the Masoboshi GFX Digitizer.

Author : Masoboshi Informationsysteme.

### 1.365 mvk.library

MVK.library 3.928  
-----

????

### 1.366 mxm.library

MXM.library v34.14  
-----

An example Amiga shared Library compiled with Aztec'C'v5.0.

This Library contains basic support functions employed by programs as "KeyMacro" or "PrintHandler".

MXM.library is the standard MXM system support Library.

Does not run under 'AmigaDOS' 2.xx!

Fred Fish PD-serie. Disk N\textdegree{} 354.  
Source included.

Author : Olaf 'Olsen' Barthel.

### 1.367 nipc.library

---

NIPC.library v40.6  
-----

Support Library for Commodore's new peer-to-peer Amiga networking package "Envoy".

Author : Commodore Amiga.

### 1.368 nofrag.library

NoFrag.library v2.2  
-----

A Library containing 6 routines for defragmenting Memory.  
Extracted and updated from the  
Tool.library  
.

Fred Fish PD-serie. Disk N\textdegree{} 503.

Author : Jan van den Baard.

### 1.369 nonvolatile.library

NonVolatile.library v40.36  
-----

????

Maybe for handling the save game and hiscore informations in the NonVolatileRAM that is found in CD32s.

Can be found on the 'Amiga User International' CoverCD.

Author : Commodore Amiga.

### 1.370 objectivegadtools.library

ObjectiveGadTools.library v1.0  
-----

It appears to be used to either use or access new AmigaDOS 3.x GadTools such as BOOPSI Class gadgets, and maybe add to use them under AmigaDOS 2 as well, but this is only a guess and may be wrong.

Can be found on the "CDPD III" CD-ROM in Programming/C/ObjectiveGT.

### 1.371 octoplayer.library

OctaPlayer.library v2.0  
-----

Routines for playing "OctaMED" modules.

---

### 1.372 odin.library

Odin.library  
-----

Process Intercommunication (USENET)

### 1.373 online.library

OnLine.library v1.05  
-----

This Library is a collection of routines to support the creation of Doors and/or OnLine-Tools, that overtake the Serial.device

It handles most of the Device-access for the Programmer and can directly interface with some BBS-System.

Author : Oliver Graf, T.O.M. Software.

### 1.374 opal.library

Opal.library  
-----

Support Library for the "OpalVision 24-bit Board".

Author : Centaur.

### 1.375 opal\_r3d.library

Opal\_R3D.library v1.02  
-----

Library to link "OpalVision" with "Real3D".

Can be found on the "AmiNet\_0293"-CDROM in ":Hard/Drivr/".

### 1.376 opalreq.library

OpalReq.library  
-----

Support Library for the "OpalVision 24-bit Board".

Author : Centaur.

---

### 1.377 owndevunit.library

OwnDevUnit.library v3.3  
-----

A Library that provides an extended locking mechanism for a Device/Unit pair.

By using OwnDevUnit.library, a program can request that the serial port is being temporarily released.

Fred Fish PD-serie. Disk N\textdegree{} 650.  
Source included.

Author : Christopher Michura.

### 1.378 pack\_scn1.library

Pack\_SCN1.library v1.0  
-----

????

### 1.379 pager-support.library

Pager-Support.library v1.26  
-----

This is the Library for the "CyberPager"-Program.

This allows one to send alpha-numeric (i.e., full text) messages to a pager from an Amiga.

This is accomplished by dialing into an IXO protocol compliant pager central and uploading messages.

Features include Alias file for commonly paged people to be referred to by name rather than cryptic PIN numbers, "Groups" file allowing messages to be easily sent to many people working on the same project, in the same department, etc, supports multiple pager centrals through a services configuration file, full logging of messages spooled, dial-out attempts, etc, etc, etc....

Fred Fish PD-Serie. Disk N\textdegree{} 992.  
Includes source in C.

Author : Christopher A. Wichura.

### 1.380 paladin.library

Paladin.library v38.109  
-----

????

---

### 1.381 parm.library

ParM.library v10.4  
-----

Part of "ParM".

Fred Fish PD-serie. Disk N\textdegree{} 995.

Author : Sylvain Rougier and Pierre Carrette.

### 1.382 patch.library

Patch.library v1.55  
-----

Library to provide Easy-to-use functions to safely install custom code for Library functions.

Fred Fish PD-Serie. Disk N\textdegree{} 886.

Includes examble programs.

Author : Stefan Fuchs.

### 1.383 pattern.library

Pattern.library v5.0  
-----

Allows 'AmigaDOS' pattern-matching, using KickStart v1.2 and higher. Matches 'AmigaDOS' patterns with strings and converts strings into Uppercase or Lowercase, including umlauts.

Supports all 'AmigaDOS' v2.0 and

ARP.library

pattern characters.

Used by "PGREP" for searching files.

Fred Fish PD-serie. Disk N\textdegree{} 625.

Author : Angela Schmidt.

### 1.384 photoworx.library

PhotoWorX.library 17.4  
-----

Support Library to access Kodak PhotoCD from the program "PhotoWorX".

Author : Olaf Barthel.

---



### 1.385 picsystem.library

```
PicSystem.library
-----
????
```

Can be found in "LIBS" on the "Games3" CDROM.

### 1.386 playerprefs.library

```
PlayerPrefs.library v1.2
-----
????
```

### 1.387 pointer.library

```
Pointer.library v3.2
-----
```

This allows you to have a Preference setting for your pointer and your busy-pointer under KS 2.xx+.

Fred Fish PD-Serie. Disk N\textdegree{} 446.

Author : Luke Wood.

### 1.388 popper.library

```
Popper.library v3.0
-----
```

Support Library for the "Popper" Menu-Replacement-Utility.

Can be found on the "AmiNet\_0294" CDROM in ":OS20/Util/".

Author : Pierre Baillargeon.

### 1.389 post.library

```
Post.library v17.7
-----
```

PostScript interpreter routines for "Post".

Fred Fish PD-Serie. Disk N\textdegree{} 828.

Authors: Adrian Aylward and Robert Poole.

---

### 1.390 potgo.library

Potgo.library v37.4  
-----

Routines for using analog input to the Amiga.

Author : Commodore Amiga.

### 1.391 powerpacker.library

PowerPacker.library v36.10  
-----

Decrunching routines for PowerPack'd files.

A shared Library to make life easy for people who wish to write programs that support "PowerPacker".

Loading crunched files from 'C' or 'Assembly' is made fast, short and easy.

Fred Fish PD-serie. Disk N\textdegree{} 678.

Author : Nico Francois. (Yes, Nico is his first name)

### 1.392 powervisor.library

PowerVisor.library  
-----

Debugger/Disassembler routines.

Available for anonymous FTP from ab20.larc.nasa.gov.

### 1.393 ppipc.library

PPIPC.library v2.2  
-----

Process Intercommunication.  
Very flexible.

Fred Fish PD-serie. Disk N\textdegree{} 290.

Authors: Pete Goodeve and Peter da Silva.

### 1.394 prefs.library

Prefs.library  
-----

????

---

### 1.395 project\_d.library

```
Project_D.library  v36.4
-----
Library for "Project_D".
```

### 1.396 prtspool.library

```
PrtSpool.library  v0.1
-----
A shared Library to easily add text or graphics print spooling to
any 'C' or 'Assembly' program.

Fred Fish PD-serie. Disk N\textdegree{} 463.

Author: Jeff Glatt.
```

### 1.397 ptool.library

```
PTool.library  v2.50
-----
PetiToolLibrary ????
```

### 1.398 qfont.library

```
QFont.library  v39.0
-----
Support Library for the "FinalWriter" Word Processing Program.
```

### 1.399 quicktools.library

```
QuickTools.library  v2.43
-----
"QuickTools" is the Tool-Package for the HardDisk-owner, who is tired
of writing long path-names when changing Directories, and who doesn't
have the time to search for Files manually.
"QuickTools" consists mainly of three small utilities, that does all
the hard work for the user, and this Library where the search-routines
are.
All search-routines support standard AmigaDOS wildcards.

SaarAG PD-Serie. Disk N\textdegree{} 636.

Author : Eivind Nordseth.
```

---

## 1.400 qwemathtrans.library

```
----- QweMathTrans.library -----
????

I'm told that this Library is a faster PD-version of the original

    Mathtrans.library
, that must be renamed to
    Mathtrans.library
    to work as such, but I have been unable to get this confirmed.
```

## 1.401 r3root.library

```
----- R3Root.library v1.0 -----
Support for "Real3D-v2".

Comes with "Real3D-v2".

Author : RealSoft.
```

## 1.402 rct.library

```
----- RCT.library v16.52 -----
????
```

## 1.403 real3d.library

```
----- Real3D.library v1.0 -----
Support Library for "Real3D-v2"

Comes with "Real3D-v2".

Author : RealSoft.
```

## 1.404 realtime.library

```
----- RealTime.library v40.2 -----

A Library which can allow applications to share high resolution timing
and synchronize with each other.

Part of the System SoftWare from v3.1.
```

---

Author : Commodore Amiga.

### 1.405 realtime\_mix.library

```
RealTime_MIX.library  v40.2
-----
????
```

Maybe it is some sort of a clone of the  
RealTime.library

### 1.406 regex.library

```
Regex.library  v1.0
-----
```

An Amiga shared Library version of the GNU regular expression package  
from the "Free Software Foundation".

Fred Fish PD-serie. Disk N\textdegree{} 248.

Authors: Edwin Hoogerbeets, FSF and Jim Mackraz.

### 1.407 removelink.library

```
RemoveLink.library  v32.25
-----
```

This Library purpose is to help a viruskiller programmer or another  
file utility to find virus infected files.

Fred Fish PD-Serie. Disk N\textdegree{} 919.  
It can be found in the "BBBF"-Drawer.

Author : Johan Öhman.

### 1.408 renderhame.library

```
RenderHAME.library  v5.1
-----
```

????

Author : Pete Patterson.

---

## 1.409 req.library

Req.library v2.8  
-----

A runtime, reentrant Library designed to make it easier for programmers to use powerfull, easy-to-use requesters, for communicating with users.

Includes such functions as a color requester, file requester, message display requester and many functions to make the creation of gadgets for your own custom requesters easier.

Very large and popular requesters used by a lot of programs.

Fred Fish PD-serie. Disk N\textdegree{} 419.

Authors: Colin Fox and Bruce Dawson.

## 1.410 reqchange.library

ReqChange.library v3.1  
-----

Support Library for the "ReqChange" Utility (a "RTPatch" clone).

Author : Magnus Holmgren.

## 1.411 reqtools.library

ReqTools.library v38.1248  
-----

A variety of nice requesters.

Has File-, Font-, Palette-, ScreenMode- and Volume-requesters. It also make the System-requesters smarter/better-feeling.

Comes with a patch to use it when ever a program calls either

```

    ARP.library
    ,
    ASL.library
    ,
    Intuition.library
    or
    Req.library
    .
  
```

ReqTools also support the new Locale-system from 2.1+. The requesters can be fully user-configurated via a Prefs-editor to put in the Prefs-Drawer.

Versions for System software v1.3 and v2.xx+.

Fred Fish PD-serie.

Author : Nico Francois. (Yes, Nico is his first name)

### 1.412 requester.library

```
Requester.library    v1.6
-----
File Input/Output requester.

Fred Fish PD-serie. Disk N\textdegree{} 463.

Author : Dissidents Software.
```

### 1.413 resourcehelp.library

```
ReSourceHelp.library    v1.12
-----
Support Library for the "ReSource" 'Assembler'-Monitor.
```

### 1.414 resourceloader.library

```
ReResourceLoader.library    v1.12
-----
Support Library for the "ReSource" 'Assembler'-Monitor.
```

### 1.415 resourcemenus.library

```
ReResourceMenus.library    v1.12
-----
Support Library for the "ReSource" 'Assembler'-Monitor.
```

### 1.416 resourcesyms.library

```
ReResourceSyms.library    v1.12
-----
Support Library for the "ReSource" Assembler-Monitor.
```

### 1.417 retina.library

```
Retina.library    v7.6
-----
Support Library for the "Retina" 24-Bit GFX Board.
```

### 1.418 review.library

```

Review.library    v1.16
-----
Review buffer functions for "VLT".

Fred Fish PD-serie. Disk N\textdegree{} 668.

Author : Willy Langeveld.

```

### 1.419 rexxapp.library

```

RexxApp.library  v0.1
-----
Helps in creating an 'ARexx' host.

Fred Fish PD-serie. Disk N\textdegree{} 463.

Author : Dissidents SoftWare.

```

### 1.420 rexxarplib.library

```

                RexxARplib.library    v3.3
-----
Connects 'ARexx' and
        ARP.library
        A Library which originally supposed to be an 'ARexx' interface ↔
        to the

        ARP.library
        . However, it has also become an interface to various

        Intuition.library
        functions, containing over 50 functions
including a file requester, string/boolean requester, environment
variable functions, simple message window, wildcard expander, etc, etc.

Fred Fish PD-serie.

Author: Willy G.J. Langeveld.

```

### 1.421 rexxdossupport.library

```

                RexxDOSsupport.library  v1.3
-----
Library that will give users of 'ARexx' accrss to some functions of the

        DOS.library
        (like ENV variables, argument parsing, etc, etc,...).

```

---



Author: Hartmut Goebel.

### 1.422 rexxextra.library

RexxExtra.library v2.2  
-----

'ARexx' utility function Library.

### 1.423 rexxflow.library

RexxFlow.library  
-----  
This is an 'ARexx' interface to the  
Flow.library  
.

Mail [dej@ppoint.amiga.ocunix.on.ca](mailto:dej@ppoint.amiga.ocunix.on.ca) for information on acquisition.

### 1.424 rexxhost.library

RexxHost.library v37.1  
-----

This is a shared Library package to simplify the 'ARexx' host creation and management procedure.

'ARexx'-message parsing is also included making it possible to control 'ARexx' from programs such as 'AmigaBASIC'.

Fred Fish PD-Serie. Disk N\textdegree{} 682.  
Includes source in 'C' and 'Assembly' language.

Author : Olaf 'Olsen' Barthel.

### 1.425 rexxisam.library

RexxISam.library  
-----

I'm not sure, but this might be a Library to connect 'ARexx' and the

ISam.library  
.

### 1.426 rexxmathlib.library

---

```
RexxMathLib.library    v1.31  
-----
```

A Library which makes various high level math functions such as SIN, TAN, LOG, etc, etc. available in 'ARexx'.

Fred Fish PD-serie. Disk N\textdegree{} 227.

Author : Willy G.J. Langeveld.

### 1.427 rexxmathsbii.library

```
RexxMathsbii.library   v1.0  
-----
```

Math routines for 'ARexx'.

### 1.428 rexxplslib.library

```
RexxPLSlib.library     v1.1  
-----
```

????

### 1.429 rexxreqtools.library

```
----- RexxReqTools.library    v37.71  
-----
```

Library that will give users of 'ARexx' access to all the requesters in the

```
ReqTools.library  
.
```

Fred Fish PD-Serie.

Author : Rafael D'Halleweyn.

### 1.430 rexxsupport.library

```
RexxSupport.library    v34.9  
-----
```

'ARexx' support modules.

Part of the System software version 2.xx+.

Author : Commodore Amiga.

---

### 1.431 rexxsyslib.library

RexxSyslib.library v36.23  
-----

Main 'ARexx' Modules.

Part of the System software version 2.xx+.

Author : Commodore Amiga.

### 1.432 rezlib.library

Rezlib.library  
-----

Used by "REZ", for making programs resident.

SaarAG PD-Serie. Disk N\textdegree{} 291.

Author : Jim Goodnow.

### 1.433 rxgen.library

RXgen.library v1.0  
-----

An 'ARexx' Library that allows you to call any function of almost any Amiga Library from an 'ARexx' program.

Fred Fish PD-serie. Disk N\textdegree{} 459.

Author : Francois Rouaix.

### 1.434 rx\_intui.library

RX\_Intui.library 0.0  
-----

Intuition.library  
calls from 'ARexx'.

Fred Fish PD-serie. Disk N\textdegree{} 463.

Author : Jeff Glatt.

### 1.435 samp.library

---

Samp.library v1.0  
-----

An interface Library for an IFF-FORM "SAMP", 16bit sampled sound file format.

This format allows more than one waveform per octave, and the lengths of different waveforms do not have to be factors of 2.

Fred Fish PD-Serie. Disk N\textdegree{} 348.

Author : Jeff Glatt, Dissidents Software.

## 1.436 saslibraries

SAS libraries  
-----

These packages form a complete development system for the creation of Amiga shared libraries, including 'ARexx' function libraries and no knowledge of 'Assembly' language is required.

System v2.xx+ is not required.

Mail dej@qpoint.amiga.ocunix.on.ca.

## 1.437 sc<xxxxx>.library

SC<xxxxx>.library  
-----

These are all support Libraries for the "SAS/C-C++" compiler.

scl.library	v6.50	(SC Phase 1)
sc2.library	v6.50	(SC Phase 2)
scCXX.library	v6.40	
scDEBUG.library	v6.50	(Debug Generator)
scGO.library	v6.50	(Global Optimizer)
scGST.library	v6.50	(GST Manager)
scHI.library	v6.50	(Debug Manager)
scLIST.library	v6.50	(List/Cross-Reference Generator)
scPEEP.library	v6.50	(PeepHole Optimizer)
scSPILL.library	v6.50	(Resource Manager)

Comes with the "SAS/C-C++" compiler.

Author : SAS Institute Inc.

## 1.438 scalaiv24.library

ScalaIV24.library v32.2  
-----

Support Library for "Scala" MultiMedia package.

### 1.439 scalamm.library

ScalaMM.library v45.2  
-----

Support Library for "Scala" MultiMedia package.

### 1.440 screenfool.library

ScreenFool.library v1.4  
-----

Public Screen and display mode Library.

With this Library, you can open a Public Screen with a protected font and title, which will be automatically deallocated by the Library's close function.

This means that your application doesn't have to stay around while the screen is open.

SaarAG PD-Serie. Disk N\textdegree{} 640.

Author : Chris Lawrence.

### 1.441 screenshare.library

ScreenShare.library v1.52  
-----

Gives Public Screens to System v1.3 users.  
Became obsolete with the System v2.04 "Public Screens"  
Used by many 'ARExx' scripts.

Fred Fish PD-Serie.

Author : Willy Langeveld.

### 1.442 sekeymap.library

SEKeyMap.library v6.50  
-----

Support Library for the KeyMap Editor in the "SAS/C-C++" compiler.

Comes with the the "SAS/C-C++" compiler.

Author : SAS Institute Inc.

### 1.443 services.library

Services.library v37.10  
-----

Support Library for Commodore's new peer-to-peer Amiga networking package "Envoy".

Author : Commodore Amiga.

### 1.444 shadow.library

Shadow.library v4.3  
-----

Concurrent-object-oriented Library.

Requires System 2.04, and current version has problems with 68000.

Available from anonymous FTP from ab20.larc.nasa.gov.

### 1.445 shutdown.library

ShutDown.library v2.0  
-----

????

Author : Olaf Barthel.

### 1.446 siegfried.library

Siegfried.library v3.12  
-----

Don't know what this is, but I'll take a wild guess and say it is written by someone named Siegfried :-)

### 1.447 simplexfont.library

SimplexFont.library v1.0  
-----

Scaleable font for "VLT".

Fred Fish PD-serie. Disk N\textdegree{} 668.

Author : Willy Langeveld.

### 1.448 specialfx.library

```
SpecialFX.library    v40.6
-----
```

What have we here ??? A future Library !?!

This Library supply a set of functions to produce special effects when mixing to pictures.

This is a Library, which might (seems to) be released with a future release of the OS ( KS/WB 4.0 ? ).

Author : Commodore Amiga.

### 1.449 splay\_<protocol>.library

```
SPlay_<protocol>.library
-----
```

Support libraries for the "SmartPlay" module-playing program.

Supported Module-formats are:

SPlay_BPSM.library	(BPSOUNDMON v2)
SPlay_DELT.library	(DeltaMusic Pro)
SPlay_DSS!.library	(Digital Sound Studio)
SPlay_FAST.library	(Modules in FASTRAM)
SPlay_FC10.library	(FutureComposer ->1.3)
SPlay_FC14.library	(FutureComposer 1.4)
SPlay_GMOD.library	(GMOD; general)
SPlay_JAMC.library	(JamCracker & JCPRO)
SPlay_PM18.library	(Promizer 1.8)
SPlay_SF13.library	(SoundFX 1.3)
SPlay_SM10.library	(SidMon 1.0)
SPlay_SMII.library	(SidMon II)
SPlay_ST15.library	(SoundTracker 15)
SPlay_XMOD.library	(XMOD; general)

SaarAG PD-Serie. Disk N\textdegree{} 586.

### 1.450 sregexp.library

```
SRegExp.library    v11.1
-----
```

A runtime Library of routines for doing wildcard pattern matching and wildcard path matching.

It accepts a slight extension of the 'AmigaDOS' wildcard syntax, including a 'not' operator and character sets.

Fred Fish PD-Serie. Disk N\textdegree{} 527.

Author : Jon Spencer.

### 1.451 ss.library

```
SS.library    v3.0  
-----
```

Special Support Library.

Can be found on the "AmiNet\_0294" CDROM in ":OS20/Util/".

Author : Martin Mares.

### 1.452 sssystem.library

```
SSSystem.library  v2.4  
-----
```

This Library is part of the "SpySystem" CPU usage monitoring package.

### 1.453 stc.library

```
STC.library    v3.304  
-----
```

This Library, together with  
STC20.library  
, is support Library for a  
File packer Program called "StoneCracker".

Author : Jouni Korhonen.

### 1.454 stc20.library

```
STC20.library  v3.304  
-----
```

This Library, together with  
STC.library  
, is support Library for a  
File packer Program called "StoneCracker".

Author : Jouni Korhonen.

### 1.455 stopus.library

```
STOpus.library  v1.1  
-----
```

For playing "SoundTracker" modules with "DirectoryOpus".

Author : Peter S. Martson.

---



### 1.456 streplay.library

STReplay.library v33.801  
-----

A shared Library which allows loading and playing of "SoundTracker"-modules, even from high level languages like 'BASIC' or 'C', without any special effort.

Fred Fish PD-Serie. Disk N\textdegree{} 258.  
Source included.

Author : Oliver Wagner.

### 1.457 strokefont.library

StrokeFont.library v1.0  
-----

Scaleable font for "VLT".

Fred Fish PD-serie. Disk N\textdegree{} 668.

### 1.458 superplay.library

SuperPlay.library v1.5  
-----

????

Author : Andreas Ralph Kleinert.

### 1.459 superview.library

SuperView.library v6.4  
-----

Support Library for the image viewer called "SuperView".

Author : Andreas Ralph Kleinert.

### 1.460 superviewsupport.library

SuperViewSupport.library v3.1  
-----

Support Library for the image viewer called "SuperView".

Author : Andreas Ralph Kleinert.

---

### 1.461 swpost.library

SWPost.library v18.8  
-----

Support Library for the "FinalWriter" Word Processing Program.

### 1.462 swshell.library

SWSHELL.library v6.0  
-----

Support Library for the "FinalWriter" Word Processing Program.

### 1.463 task.library

Task.library v1.2  
-----

????

### 1.464 tcla.library

TCLA.library v0.0  
-----

????

### 1.465 tdisk.library

TDisk.library v33.10  
-----

????

### 1.466 test\_multi.library

Test\_Multi.library v1.0  
-----

????

### 1.467 test\_one.library

Test\_One.library v1.0  
-----

????

---

### 1.468 text\_ed.library

```
Text_Ed.library  v0.1
-----
????
```

### 1.469 textmode.library

```
TextMode.library  v1.0
-----
????
```

Authors: Stefan Stuntz & Andreas Schildbach.

### 1.470 timer.library

```
Timer.library
-----
Routines for very precise time measures.

Author : Commodore Amiga.
```

### 1.471 tio.library

```
TIO.library  v1.0
-----
????
```

### 1.472 tool.library

```
Tool.library  v8.2
-----

A shared Library containing 45 useful functions for all kinds of
programs.
There are functions for ports, sorting, gadgets, memory, string,
directory and file handling, etc, etc.

Fred Fish PD-serie. Disk N\textdegree{} 475.

Author : Jan van den Baard.
```

### 1.473 toolmanager.library

---

ToolManager.library v3.0  
-----

This Library is the handler for the "ToolManager".  
The Library offers 6 functions to create and manipulate "ToolManager"  
objects, so you can use them in your programs.

Fred Fish PD-Serie.

Author : Stefan Becker.

### 1.474 track.library

Track.library  
-----

Memory tracking functions for "VMAlloc".

### 1.475 translator.library

Translator.library v37.1  
-----

Speech synthesis support Library.

This Library has only one entry point to call, which translates english  
text to phoneme code, which can be fed to the  
Narrator.device

.

WAS!!! Part of the System software.

Commodore have stopped suppling this Library with the System.

What on earth are they thinking on at Commodore?!?!?

Author : Commodore Amiga.

### 1.476 traplist.library

TrapList.library v5.4  
-----

This Library belongs to the FIDO Mailer called "TrapDoor" and contains  
all functions needed for mailing FIDO packages to FIDO nodes.

Comes with the "TrapDoor"-program, which can be obtained from most BBS.

Authors: Maximilian Hantsch and Martin Laubach.

### 1.477 triton.library

---

Triton.library v1.0  
-----

???? (Seems to be some sort of Intuition supporter ?)

SaarAG PD-Serie. Disk N\textdegree{} 715.

### 1.478 trm.library

TRM.library v38.362  
-----

????

### 1.479 turtle.library

Turtle.library v3.2  
-----

A shared Library of 'Turtle' functions for drawing in a RastPort.

Fred Fish PD-Serie. Disk N\textdegree{} 321.  
Source included.

Author : Thomas Albers.

### 1.480 unpack.library

Unpack.library v39.51  
-----

This Library purpose is to help a viruskiller programmer to scan files that are crunched.

Fred Fish PD-Serie. Disk N\textdegree{} 919.  
It can be found in the "BBBF"-Drawer.

Author : Thomas Neumann.

### 1.481 utility.library

Utility.library v39.10  
-----

General utility routines for Tags, Date/Time and math.

Part of the System software version 2.xx+.

Author : Commodore Amiga.

---

### 1.482 vd\_r3d.library

```
VD_R3D.library 40.0
-----
????
```

### 1.483 unnamed.1

```
IV24_R3D.library v2.0
-----
Library to link "Real3D-v2" with the "ImpactVision 24" 24Bit-GFX Board.

Comes with "Real3D-v2".

Author : RealSoft.
```

### 1.484 vector.library

```
Vector.library v1.66
-----
Routines for 3D object manipulation and display.

Available for anonymous FTP from ab20.larc.nasa.gov.
```

### 1.485 version.library

```
Version.library v40.25
-----
Current software version info.

Part of the System software.

Author : Commodore Amiga.
```

### 1.486 vidi.library

```
Vidi.library v4.05
-----
????
```

### 1.487 vilintuisup.library

```
VilIntuiSup.library v2.8
-----
????
```

---

## 1.488 virus.library

Virus.library v4.99  
-----

Virus detection Library for "VScan".

SaarAG PD-Serie. Disk N\textdegree{} 267.

Author : Arthur Hagen.

## 1.489 vlab.library

VLab.library v7.2  
-----

????

## 1.490 vmem.library

VMem.library v3.0  
-----

This Library supports Virtual Memory (Swapping not used portions of the memory out to a HardDisk, and thus providing additional memory, found on the HardDisk, for your programs).

The replacement of the memory is done by a MMU (Memory Management Unit). So you need an 68020+MMU, an 68030 or an 68040 (the last two have built in MMU's).

The Library comes with the "GigaMem"-program.

While the program is Copyrighted and Non-Distributable, the Library is fully distributable, allowing programmers to write their programs to support Virtual Memory and "GigaMem".

Includes and AutoDocs for this Library can be found in the Public Domain in the SaarAG PD-Serie. Disk N\textdegree{} 525.

Author: Ch. Schneider & bsc büroautomation AG.

## 1.491 vmm.library

VMM.library v1.2  
-----

???? (Virtual Memory Manager Library ?)

## 1.492 voice.library

---

Voice.library v8.4  
-----

This is a Library to handle sampled speech input to a program.

Part of the "AniMan"/"VCLI" project.

Fred Fish PD-Serie. Disk N\textdegree{} 898.

Author : Richard Horne.

### 1.493 whatis.library

WhatIs.library v4.0  
-----

WhatIs.library can detect filetypes and is fully parametrable by an user made ASCII file.

You can describe filetypes and they will be recognized by the Library.

Fred Fish PD-Serie. Disk N\textdegree{} 995.

Authors: Sylvain Rougier & Pierre Carrette.

### 1.494 workbench.library

WorkBench.library 39.48  
-----

Routines for managing WorkBench.

Part of the System software.

Author : Commodore Amiga.

### 1.495 works.library

Works.library v1.1  
-----

????

### 1.496 wp.library

WP.library v6.1  
-----

Library for the "WordPerfect" Word Processing Program.

---



### 1.497 wshell.library

```
WShell.library    v37.35
-----
"WSHELL 2.0" Library.
```

### 1.498 wwcore.library

```
WWCore.library    v1.0
-----
Support Library for the "WordWorth" Word Processing Program.

Comes with "WordWorth".

Author : DigitaSoft.
```

### 1.499 wwfilter.library

```
WWFilter.library  v1.0
-----
Support Library for the "WordWorth" Word Processing Program.

Comes with "WordWorth".

Author : DigitaSoft.
```

### 1.500 wwreq.library

```
WWReq.library     v1.0
-----
Requesters for the "WordWorth" Word Processing Program.

Comes with "WordWorth".

Author : DigitaSoft.
```

### 1.501 wwspell.library

```
WWSpell.library   v1.1
-----
The spell-checking part of the "WordWorth" Word Processing Program.

Comes with "WordWorth".

Author : DigitaSoft.
```

---

## 1.502 xcolor.library

XColor.library v34.2  
-----

Link Library with a full-fledged color requester along with several color functions, like Copy, Spread, Exchange, Antigue, etc., to aid in creating your own custom color requestors.

Fred Fish PD-Serie. Disk N\textdegree{} 361.  
Contains several demos along with Include files for 'C', 'AmigaBASIC', "DevPac" 'Assembler' and 'KickPascal'.

Author : Roger Fischlin.

## 1.503 xem<xxxxx>.library

XEm<xxxxx>.library  
-----

These Libraries are used in communication Programs to emulate a particular terminal.

xemAMIGA.library	v4.0	Emulate an ANSI terminal.
xemASCII.library	v4.30	Emulate an ASCII terminal.
xemBBS.library	v4.4	Emulate a better xemIBM terminal.
xemHEX.library	v4.5	Emulate a hexadecimal output terminal.
xemIBM.library	v4.1	Emulate an IBM terminal.
xemVT340.library	v4.52	Emulate a DEC VT340 terminal.

Author : Ueli Kaufmann.

## 1.504 xfd.library

XFD.library v33.1  
-----

????

There is also another Library called  
XFDmaster.library  
and I think it  
is the same as this, in a (for some strange reason) renamed version.

Author : Georg Hörmann.

## 1.505 xfdmaster.library

XFDmaster.library v34.2  
-----

This Library allows you to decrunch nearly every crunched file known to the Amiga.

---

The XFDmaster.library, successor of the  
DeCrunch.library  
, is a  
standard Amiga shared runtime library.  
It works with Kickstart V33+ and offers applications the possibility to  
directly support crunched files of any kind.

Fred Fish PD-Serie. Disk N\textdegree{} 986.

Author : Georg Hörmann.

## 1.506 xferq.library

Xferq.library v1.8  
-----

This is the replacement to the  
Flow.library  
.

It manages a database of filenames queued for transmission over a  
network link.

This Library is still under development and is subject to change.  
It comes with an 'ARexx' interface.  
System software Release version 2.04 is required.

Can be found on the "AmiNet\_0294" CDROM in ":COMM/Misc/".

Author : David Jones.

## 1.507 xmodem\_term.library

XModem\_Term.library v0.0  
-----

XModem functions.

Fred Fish PD-serie. Disk N\textdegree{} 462.

Author : Jeff Glatt, Dissidents Software.

## 1.508 xmodem1k\_term.library

XModem1K\_Term.library v0.0  
-----

XModem 1K functions.

Fred Fish PD-serie. Disk N\textdegree{} 462.

Author : Jeff Glatt, Dissidents Software.

---

## 1.509 xpkmaster.library

----- XPKmaster.library v2.5 -----

Compression and encryption.

Master Library for the "XPK" compressions/encryption movement.  
The actual compression/encryption is done via sub-Libraries, that must be placed in a sub-directory in LIBS: called Compressors.  
Each sub-Library contains its own compression/encryption method which can be recognized by its name.

The name of the sub-Libraries is always  
XPK<protocol>.library

.

SaarAG PD-Serie. Disk N\textdegree{} 488.

Authors: Urban Duminik Mueller & Bryan Ford.

## 1.510 xpk<protocol>.library

----- XPK<protocol>.library -----

Support libraries for the "XPK" compression/encryption movement.  
These sub-Libraries is controlled by the  
XPKmaster.library

.

Supported compression-formats are:

xpkBLZW.library	v3.0	xpkCBR0.library	v1.0
xpkCRM2.library	v1.1	xpkDHUF.library	v0.58
xpkDLTA.library	v0.1	xpkENCO.library	v1.0
xpkFAST.library	v1.03	xpkFEAL.library	v1.0
xpkHFMN.library	v1.16	xpkHUFF.library	v0.63
xpkIDEA.library	v1.99	xpkIMPL.library	v1.0.79
xpkLHLB.library	v1.0	xpkNONE.library	v1.0
xpkNUKE.library	v1.1	xpkRDCN.library	v3.1
xpkRLEN.library	v1.1	xpkSHRI.library	v1.0
xpkSMPL.library	v1.0	xpkSQSH.library	v1.10

SaarAG PD-Serie. Disk N\textdegree{} 488.

Authors: M. Zimmermann, Christian von Roques, and others.

## 1.511 xpr.library

----- XPR<protocol>.library -----

Part of the XPR protocol movement.

Includes the following protocols and maybe others.

Version numbers are:

xprASCII	2.3	xprBPlus	2.0
xprBiModem	1.2	xprClock	0.1
xprJModem	0.1	xprKermit	2.35
xprQuickB	1.2	xprSZModem	1.40
xprVMS	0.8	xprXModem	34.34
xprYModem	2.2	xprZEdZap	1.00
xprZModem	3.1	xprZModem32k	2.0b
xprZVoice	1.1	xprZSpeed	2.11
xprGate	1.0		

Documentation on "XPR" Libraries on Fred Fish Disk N\textdegree{} 247.

Authors: Villy Langeveld, Carsten Pluntke, Michael Richardson,  
Russell McOrmond and others...

## 1.512 xte.library

XTE<protocol>.library

-----  
External Terminal Emulation Libraries.

Version numbers are:

XTEANSI	1.0
XTEHex	1.0
XTETTY	1.0

Author : Stefan Stuntz.

## 1.513 ybatch\_term.library

YBatch\_Term.library v0.0

-----  
YModem batch functions.

Fred Fish PD-serie. Disk N\textdegree{} 462.

Author : Jeff Glatt, Dissidents Software.

## 1.514 ymodem\_term.library

YModem\_Term.library v0.0

-----  
YModem functions.

Fred Fish PD-serie. Disk N\textdegree{} 462.

Author : Jeff Glatt, Dissidents Software.

---

## 1.515 statistics

----- Statistics  
-----  
This "SystemGuide" is version 1.0.  
  
It contains: 67  
    Devices  
        ( 62 Main-Devices   and  5 Sub-Devices)  
  
    11  
    FileSystems  
                            72  
  
    Handlers  
        ( 69 Main-Handlers   and  3 Sub-Handlers)  
  
    403  
    Libraries  
        (315 Main-Libraries and 89 Sub-Libraries)  
  
and was finished 05 Aug. 1994.

Dan Elgaard

## 1.516 index

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