RunLame

Bilbo the first

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Chapter 1

RunLame

1.1 RunLame documentation

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```
                           RunLame

                        Version 1.34
              Copyright 1992-1993 by Bilbo the first
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```
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```

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1.4 PrayWare concept explanation

                         This package is

                          'PrayWare'

                      Don't PAY, just PRAY!

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Wrong! The author just asks you for something very easy, something which doesn't cost you any money but some minutes of your time. Interested?

Just get in contact with the Lord Jesus Christ and pray. Simply try it, talk to him like you would talk to a very private and good friend. Tell him what happened today, what you did feel like today. Tell him you received a software of the author which you use and like very much (of course only if

you really do so :-). And tell him that the author is in need of help for
he is often very weak and often fails to love his Lord and Lord's creatures
the right way. Just talk with him about everything you like to.

Thanks, that's the best thing you could do for me.

Anyone feeling personally bothered by the concept of PrayWare may just
ignore it. Nobody forces you to do things you don't want to do. Of course
you though might use the software under the limitations expressed in
the disclaimer.

1.5   RunLame introduction

                                   The aim of the game

Do you run your system using another screenmode than PAL or NTSC, for
example EURO72, an AGA specific screenmode or even a screenmode produced by
a graphics expansion board? Have you ever tried to start a game or demo
from within this screenmode? Have you ever been angry about those
programmers who do not stick to the guidelines of programming thus producing
programs which are not aware of the screenmode they were started out of?

Do you have an Amiga with 68010, 68020, 68030 or 68040 processor? Did you
ever curse those socalled coders whose programs crash your computer when you
didn't disable the processor's caches and forgot to move the vector base
register back to $0.l?

lame programming is the disease, RunLame is the cure!

RunLame is a Kick2.04+ tool, it will NOT work under Kick1.0/1.1/1.2/1.3/1.4!
RunLame is 100% reentrant Assembler code, so you can set the pure flag and
make it resident. RunLame is startable from Workbench.

RunLame considers some adjustments and a command line and executes the given
command line, just after having degraded the display (optional) and the CPU
(optional). When the command line has been executed the display and CPU
state is restored to the same as before executing the command line.

Summarizing we can say RunLame is a multitasking friendly temporary system
degrader which may let some bad behaving programs run in your system's
environment (but can't give any guarantee). If some of those lame
programs don't run though RunLame has been used, they are on a higher
lameness-level, which can't be fixed by RunLame (this is definitely not a
bug of RunLame).

I do write demos myself and you can believe, i do know how to write a proper
startup code. Consider RunLame beeing an external startup code.

1.6   RunLame features

                                     Features

The {}'s inform you about the system configuration needed for a feature.

·Optionally disabling of each processor cache, burst or copyback mode.
 {68020, 68030[EC], 68040[EC]}

·Optionally moving VBR to location $0 or to a FAST memory location.
 {68010, 68020, 68030[EC], 68040[EC]}

·Optionally degrading display's screenmode to simulate OCS. This can
 optionally preserve or hide the current display's contents. Display
 degradation even works if the current active screenmode is produced by a
 graphics board (fi. Merlin © X-Pert).
 {ECS, AGA}

·Degrading sprite resolution to simulate OCS if display degrading is
 activated.
 {AGA}

·Turning off sprites in a system friendly manner if display degrading is
 activated.
 {OCS, ECS, AGA}

·Flexible and highly configurable fix for a wide variety of lame programs.

·Works under Kickstarts 2.04, 3.0 and 3.1.

·Due to 100% system conform and system friendly algorithms, future system
 compatibility is as high as possible. Furthermore the multitasking
 environment is not hurt or damaged by the code. All degrading is done as
 smart as possible, and the code did never crash during beta testing.

·verified, tested and safe (100% assembler) code resulted in a short
 binary.

·Impressive user friendlyness due to various possibilities of usage:

  ·A CLI/Shell interface with online help and OS2 conform parsing for quick
   and effective usage directly, or indirectly (fi. aliases, shell
   scripts, DirectoryOpus calls).

  ·Startable from Workbench, additionally a whole bunch of tooltypes is
   supported.

  ·A GUI in gadtools style of OS2+ for maximum convenience. Supports pull
   down menus, keyboard shortcuts, ASL filerequester (which of course is
   the most often patched system part :-), an application window which can
   be zoomed. Of course an ansynchroneous amigaguide help is available.

  ·An application icon which can be placed on the Workbench for intuitive
   and specialized usage.

·Detailed messages inform the user in failure situations. Messages are
 automatically directed to Shell window or to requesters, depending on
 operation mode.

·Output of the commandline is directed to Shell window or to an
 automagically opening window , depending on operation mode.

Sounds great? YAH – Yet another hype? Hypenosis – Better believe the hype!
But keep on reading, here come... the bad news.

1.7 RunLame disadvantages

                            The bad news

·RunLame cannot simulate a Workbench startup for lame programs. The
 execution of programs is equivalent to a call from a shell. Therefore
 some programs might not make use of their tooltypes. But be serious, have
 you ever seen a program which needs Workbench startup and RunLame support?

·The GUI is not font adaptive, nor is it localizable.

·Though the code worked very well during the beta testing phase, there
 might be nasty bugs.

·RunLame can't be used to run non-DOS trackloading demos, for I don't want
 to support this kind of loaders. I usally like to keep good demos on my
 harddisk, which is not directly possible with trackmos. So I don't keep
 lame coded trackmos.

·The icon of RunLame is not yet very original. If you would like to draw a
 better one, which I shall distribute in the next release, contact me.
 Maybe someone is gifted enough to make a MagicWB-like icon for RunLame?

·The documentation often might use improper terms. Please excuse this, for
 I am not a native english speaker. If you want to improve the
 documentation, please contact me.

1.8 Installing RunLame

                         Installing RunLame

Installing RunLame in your system is quite easy. There is no need for an
Installer script.

At first enter the directory, which contains the package. The name of the
directory is RunLame_V#?.#? (the #?.#? is the current release number).
Then enter the Bin directory and copy to the following files to a directory
which is in your system path:

 ·RunLame
 ·RunLame.info

That's it. You can now start RunLame from shell or from Workbench. For
special operation topic refer the operation description.

1.9 RunLame operation description

```
                      How to use RunLame
```

```
    Usage from Workbench
```

```
    Usage from CLI
```

```
                    General notes
```

Both, Workbench tooltypes and CLI AmigaDOS template control the
configuration of RunLame. Those keywords are called switches to simplify
the terminology.

Of course some of the switches exclude each other, for example it is not
possible to use SCREEN and NOSCREEN together, or DATABURST and NOBURST.
Wrong usage of switches results in the appropriate error message. Though
COPYBACK only works on 68040 processors, no errormessage is prompted when
this switch is used on another processor because this makes scriptfiles
easier system portable. Same is to be said about EXTERNALCACHE when there
is no external cache available, as same applies to VBRTOFAST when the
processor has no vector base register (68010+ have a VBR).

1.10   Using RunLame from the Workbench

```
                  General notes on usage from Workbench
```

To use RunLame from Workbench, simply double click it's icon. Depending on
the supplied tooltypes in the icon, RunLame is going to be configured.

Furthermore it's possible to supply a COMMANDLINE to RunLame without using
the appropriate tooltype. If you want to do this, click first RunLame's
icon, and then as many icons as u desire in the order you want to. The last
needed icon is to be double clicked.

If you want adapt RunLame's configuration to your own needs, read the
section about configuration topics.

Workbench users are advised to read about the possibilities given by the
application icon feature and the path setting.

1.11   RunLame configuration on Workbench using tooltypes

```
                  Workbench tooltypes
```

```
      COMMANDLINE
      GFXUSERINTERFACE
      APPICON
      LOOP
      DEFAULTS
      SCREEN
      VISIBLE
```

```
        CACHE
        INSTCACHE
        DATACACHE
        BURST
        INSTBURST
        DATABURST
        COPYBACK
        EXTERNALCACHE
        VBR
        APPEND
        PATH
        GUIDE
        GUIDENAME
```

1.12   Using RunLame from a shell/CLI

```
                General notes on usage from a shell/CLI
```

It's assumed, that shell/CLI users are advanced and more experienced users.
If you don't userstand the explanations in this section, use RunLame
together with the Workbench.

You can simply call RunLame using the command RunLame. This opens the GUI
and configures RunLame according to it's defaults. If you don't need the
GUI, call RunLame together with the needed switches and the desired
commandline. Since RunLame ignores the Workbench tooltypes when started
from a shell/CLI, shell users can only configure RunLame using aliases or
script files.

1.13   RunLame configuration on shell

```
                        AmigaDOS template
```

```
RunLame H   =   HELP              /S, G   =   GUIDE             /S,
  GUI = GFXUSERINTERFACE /S,
  API = APPICON          /S,
  L   = LOOP             /S,
  D   = DEFAULTS         /S, ND   = NODEFAULTS        /S,
  S   = SCREEN           /S, NS   =  NOSCREEN         /S,
  V   = VISIBLE          /S, NV   =  INVISIBLE        /S,
  C   = CACHE            /S, NC   =  NOCACHE          /S,
  IC  = INSTCACHE        /S, NIC  =  NOINSTCACHE      /S,
  DC  = DATACACHE        /S, NDC  =  NODATACACHE      /S,
  B   = BURST            /S, NB   =  NOBURST          /S,
  IB  = INSTBURST        /S, NIB  =  NOINSTBURST      /S,
  DB  = DATABURST        /S, NDB  =  NODATABURST      /S,
  CB  = COPYBACK         /S, NCB  =  NOCOPYBACK       /S,
  EC  = EXTERNALCACHE    /S, NEC  =  NOEXTERNALCACHE  /S,
  VBR = VBRTOFAST        /S, NVBR =  VBRTO0           /S,
  APN = APPEND           /S, NAPN =  NOAPPEND         /S,
  P   = PATH             /K, GN   =  GUIDENAME        /K,
  CL  = COMMANDLINE      /F cmd
```

1.14 HELP, H

```
CLI options                        Workbench tooltypes


HELP | H      not supported
```

Explanation:

Display a short summary of valid options in the current CLI window. If the
window is too small to completely hold this information, you may redirect
the output to a file (RunLame HELP >T:RunLame.olh), which can be read using
a text editor.

1.15 GUIDE, G

```
CLI options                        Workbench tooltypes

GUIDE | G     GUIDE | G   = USE
```

Explanation:

Open an AmigaGuide help documentation for RunLame. This happens directly at
startup of RunLame and the form of the guide help depends on the setting of
RunLame.   If you use the GUI and/or API of RunLame, the guide help will be
asynchroneous, allowing manipulation of the GUI/API while reading the guide.
Otherwise the guide is synchroneous.

1.16 GFXUSERINTERFACE, GUI

```
CLI options                          Workbench tooltypes

GFXUSERINTERFACE | GUI     GFXUSERINTERFACE | GUI  = USE
```

Explanation:

The GUI is always invoked when the COMMANDLINE parameter is omitted. Use
the GUI option to force RunLame to open the GUI, even if COMMANDLINE has
been specified, whose argument in this case will appear in the command line
string gadget. The GUI is going to appear centered to the mouse pointer on
the default public screen, I just liked the behaviour of the ReqChange
redirected requesters.   The GUI is mainly divided in two parts: the menu,
and the window. Both, menu and window gadgets correspond directly to each
other.   Both, menu items and gadgets support shortcuts. The shortcuts of
the menu are the same as the shortcuts of the gadgets, but they need the
left Amiga key qualifier pressed additionally. So both, 'I'(or i') and
LAMIGA+'I'(or 'i') result in the same action as if the Instruction Cache
gadget or menu item would have been clicked/selected. The shortcuts are not
listed in this documentation for the user can directly determine them from
the GUI. The menu shortcuts are shown right to the appropriate menu item if

it supports shortcuts. The gadget shortcuts are case insensitive (like the
menu shortcuts). The underlined character of the gadget description text is
the corresponing shortcut key, not to be pressed with additional qualifiers
except for optionally SHIFT. If the launched command line would produce any
outputs to the CLI window, this output is redirected to a automatically on
the default public screen opening CON: window, which can be closed
asynchroneously (meaning that RunLame is not running any more, but the
window remains on the default public screen and can be closed when not
needed any more). In addition to be able to input the command line using
the string gadget or the filerequester, it is possible to drop
(multiselected) icons from the Workbench into the GUI window. The name(s)
of the corresponding object(s) appear(s) in the command line string gadget
added to the end of the previous contents (assuming NOAPPEND has not been
supplied). Using the PATH parameter makes it possible to set an initial
drawer for the file requester (normally the file requester uses the current
directory as initial drawer)

One special shortcut is the 'HELP' key. If pressed, the online AmigaGuide
documentation is shown asynchroneously. This means you need not to close
the guide before using the GUI again. If no guide appears, you should check
if the documentation (RunLame.guide) resides in the AmigaGuide path (defined
in ENV:AmigaGuide/Path). If you want to place the documentation outside the
AmigaGuide path, you have to specify the location using GUIDENAME.

The pull down menu (shortcuts not documented):

```
 main menu strip:          sub menu strips:


 +=====================+ +=============+ +=============+ +=============+
 |RunLame  | |VBR location | |Caches | |Burst modes  |
 +=====================+ +=============+ +=============+ +=============+
 |About     | | $0    | | Instruction | | Instruction |
 |~~~~~~~~~~~~~~~~~~~~~~| | FAST memory | | Data  | | Data  |
 |VBR location     | +-------------+ | External  | +-------------+
 |Caches     |       +-------------+
 |Burst modes   |
 |  Copyback mode |
 |~~~~~~~~~~~~~~~~~~~~~~|
 |  Screen     |
 |  Visible screen  |
 |~~~~~~~~~~~~~~~~~~~~~~|
 |Enter commandline |
 |Open file requester |
 |Launch commandline  |
 |~~~~~~~~~~~~~~~~~~~~~~|
 |Quit     |
 +---------------------+


  application window:

       +---------------------+
       |· RunLame           |
       +---------------------+
       |+-------------------+|
       || $0   VBR location ||
       |+-------------------+|
```

```
     ||   Instruction Cache ||
     ||   Data Cache   ||
     ||   External Caches ||
     |+--------------------+|
     ||   Instruction Burst ||
     ||   Data Burst  ||
     |+--------------------+|
     ||   Copyback    ||
     |+--------------------+|
     ||   Screen    Visible||
     |+--------------------+|
     |
               |
     |  Launch commandline  |
     +----------------------+
```

1.17   About menu item

Explanation:

A short copyright notice is shown in a requester. Same effect if you press
'?'.

1.18   Enter commandline menu item

Explanation:

Activate the commandline string gadget which enables you to specify a
COMMANDLINE.

You may also press 'ENTER','RETURN' or 'TAB' to activate the commandline
string gadget.

1.19   Open file requester

Explanation:

Open an ASL file requester. You then may select a file whose path/name will
be appended to the commandline, depending on the APPEND switch.

1.20   Launch commandline

Explanation:

This action ignites the execution of the command line. The current
configuration of RunLame is active during the execution of the command line
defined in the command line string gadget. After execution the changed

settings of your system are reset to the state active before. So if you
know that for example the demo called ObsoleteFX will not run with active
data cache, but an active instruction cache would speed it up, forthermore
it won't run in burst mode and with VBR in another location than $0.l, use:

```
 RunLame GUI INSTCACHE NODATACACHE NOBURST INVISIBLE ObsoleteFX
```

You will see the correct setting reflected in the gadgets and the menu
items. If you now launch the command line, the following will happen:

```
 assumed system settings before launching:
  data cache active        | instruction cache active
  data burst mode active   | instruction burst mode inactive
  VBR in Fast RAM at position p

 system settings during execution of ObsoleteFX (launched):
  data cache inactive      | instruction cache active
  data burst mode inactive | instruction burst mode inactive
  VBR at $0.l

 system settings after execution of ObsoleteFX:
  data cache active        | instruction cache active
  data burst mode active   | instruction burst mode inactive
  VBR in Fast RAM at position p
```

1.21 Quit RunLame

Explanation:

The RunLame task/process will stop existing, all held resources are given
back to the system. The looping mode (activated by LOOP) is stopped, too.

You may quickly exit RunLame by pressing the 'ESC' key.

1.22 APPICON, API

```
CLI options                      Workbench tooltypes

APPICON | API     APPICON | API   = USE
```

Explanation:

The API supplies a comfortable method of immediate starting objects whose
icons are dropped into it.   It is possible to multiselect icons, so the
command line consists of all objects in the order they have been selected.
To quit RunLame, double click the API.   When a command line has been
supplied at the startup of RunLame, all icons/objects dropped into the API
are appended to this command line, then the command line is executed
(assuming NOAPPEND has not been supplied). When too many icons are dropped
into the API , the Workbench screen beeps before command line execution.
Output produced by the command line goes to the CLI when RunLame was started

not from the Workbench. The icon representing the API is the same as used
for RunLame (if this is missing, the system default icon is used) , the name
is the same as RunLame has on your disk.

1.23 LOOP, L

CLI options   Workbench tooltypes

LOOP | L   LOOP | L   = YES

Explanation:

The LOOP option can only be used together with API and/or GUI. When you
want to start several command lines in a sequence, it is quite unconfortable
to always start RunLame for each command line execution. LOOP works around
this problem by forcing RunLame to pop up the API and/or GUI again after
each command line execution, until it is quitted by double clicking the API
or quitting the GUI. When the appropriate input object (API/GUI) pops up
again, the initial command line given at startup of RunLame (COMMANDLINE)
is always inserted at front of the command line created using the input
object. Furthermore all settings of the former command line execution are
preserved.

Example:

 RunLame APPICON LOOP dir

 You can now drop icons of Workbech drawers into the application icon to
 list their contents. The dir command is always assumed to be the first
 part in the command line. Same applies to startup from Workbench via
 (multi-)selected icons.

1.24 DEFAULTS, NODEFAULTS, D, ND

CLI options   Workbench tooltypes

DEFAULTS | D   DEFAULTS | D   = USE
NODEFAULTS | ND   DEFAULTS | D   = NO

Explanation:

If you specify DEFAULTS at startup of RunLame, the following options are
assumed:

SCREEN, VISIBLE, NOCACHE, NOINSTCACHE, NODATACACHE, NOBURST,
NOINSTBURST, NODATABURST, NOCOPYBACK, NOEXTERNALCACHE, VBRTO0, APPEND

The DEFAULTS option is always assumed to be set. So if you want to disable
all caches, the copyback mode and want to degrade the display, you need not
to specify one of these options. Those options are really obsolete, but

were implemented for completeness. Furthermore the specification of those
options in script files (though leaving them out would have the same effect)
increases the readability of the script file because every user not knowing
which defaults are set by RunLame can see what really is going to happen.
So the following usages of RunLame affect in the same:

```
 RunLame foobar

 RunLame D S NC NB NCB NEC NVBR CL foobar

 RunLame BURST NIC NOEXTERNALCACHE CL=foobar

 RunLame SCREEN NOINSTCACHE NODATACACHE NOINSTBURST NODATABURST NOCOPYBACK
         NOEXTERNALCACHE VBRTO0 DEFAULTS COMMANDLINE=foobar
```

The NODEFAULTS switch forces RunLame to configure itself to fit best the
current system settings. So if you specify NODEFAULTS and don't override
any of the settings, RunLame will change nothing in the system while
executing the commandline.

Furthermore specification of options overrides the DEFAULTS/NODEFAULTS
settings of RunLame. So it's possible to start programs in your normal
environment, with some parameters just changed, not all possible. The
parameters changed are set to the same value each time you use this feature,
but the rest of the settings are the built in defaults/the current system
setting.

Example:

```
 RunLame NODEFAULTS VBRTO0 SCREEN INVISIBLE ObsoleteFX

 assumed system settings before RunLame usage:
  data cache active         | instruction cache active
  data burst mode active    | instruction burst mode inactive
  external caches inactive   | copyback mode active
  VBR in Fast RAM at position p

 system settings during execution of ObsoleteFX:
  data cache active         | instruction cache active
  data burst mode active    | instruction burst mode inactive
  external caches inactive   | copyback mode inactive
  VBR at $0.l
  screenmode changed to PAL, screen blanked,
  sprite resolution changed to lores and sprites turned off

 system settings after execution of ObsoleteFX:
  data cache active         | instruction cache active
  data burst mode active    | instruction burst mode inactive
  external caches inactive   | copyback mode active
  VBR in Fast RAM at position p
```

1.25 SCREEN, NOSCREEN, S, NS

CLI options   Workbench tooltypes

```
SCREEN | S      SCREEN | S    = ON
NOSCREEN | NS     SCREEN | S    = OFF
```

Explanation:

Non system conform programmed software might cause problems when started
from within another screen mode than PAL. This might effect in weird
running bitplanes or anything else, but when it happens, you will become
aware of it, believe me. To avoid these annoying problems, the default
option called SCREEN opens a 2x2 pixels wide screen with depth 1 (this
should eat up not very much memory :-) before starting the problematic
program. Due to the existance of several screen mode promotion tools I have
to point out that it is not very clever to allow promotion of the screen
opened by RunLame. Furthermore some programs use an incorrect method to
turn off sprites which results in running pixel patterns (similar to the
above decribed bitplane effect). RunLame tries to avoid this problem when
the SCREEN option is active. In favour to RunLame's multitasking abilities,
the sprite DMA is not shut down, but redirected to a NULL sprite (which is
the most effective method to turn off sprites). This method cannot avoid,
that the pointer is reactived by any window becoming active after turning
off the sprites (refer to Problems - solutions - corner).

1.26 VISIBLE, INVISIBLE, V, NV

```
CLI options                       Workbench tooltypes

VISIBLE | V      VISIBLE | V   = YES
INVISIBLE | NV     VISIBLE | V   = NO
```

Explanation:

The VISIBLE option keeps the previous frontmost screen visible, but
displayed in PAL. This is handy when the program you start with RunLame
outputs to any window opened/opening on the previous frontmost screen. For
programs that don't output anything to the previous frontmost screen, use
the INVISIBLE option, so the current display contents are hidden. This
option only makes sense together with the SCREEN option.

1.27 CACHE, NOCACHE, C, NC

```
CLI options                       Workbench tooltypes

CACHE | C      CACHE | C   = ON
NOCACHE | NC     CACHE | C   = OFF
```

Explanation:

This option controls all processor caches installed in the system. Refer to
INSTCACHE and DATACACHE for more detailed description.

1.28   INSTCACHE, NOINSTCACHE, IC, NIC

```
CLI options                    Workbench tooltypes


INSTCACHE | IC      INSTCACHE | IC    = ON
NOINSTCACHE | NIC   INSTCACHE | IC    = OFF
```

Explanation:

This option allows you to control the instruction cache of the CPU. Some lame programs use self modifying code which can lead to inconsistency between cache contents and memory contents. The result in most cases is a system crash. In this case turn off the instruction cache.

1.29   DATACACHE, NODATACACHE, DC, NDC

```
CLI options                    Workbench tooltypes


DATACACHE | DC      DATACACHE | DC    = ON
NODATACACHE | NDC   DATACACHE | DC    = OFF
```

Explanation:

This option allows you to control the data cache of the CPU. Some lame programs modify memory data whilst it is read by a DMA channel, which can lead to inconsistency between cache contents and memory contents. The result in most cases is a weird display, a crash or other anomalies. In this case turn off the data cache.

1.30   BURST, NOBURST, B, NB

```
CLI options                    Workbench tooltypes


BURST | B     BURST | B   = ON
NOBURST | NB     BURST | B   = OFF
```

Explanation:

This option lets you control the burst modes of the CPU caches all together. Refer to INSTBURST and DATABURST for more detailed description.

1.31   INSTBURST, NOINSTBURST, IB, NIB

```
CLI options                    Workbench tooltypes


INSTBURST | IB      INSTBURST | IB    = ON
```

```
NOINSTBURST | NIB   INSTBURST | IB    = OFF
```

Explanation:

This option allows you to control the burst mode of the instruction cache of
the CPU. Disabling might fix strange behaviour of programs.

1.32   DATABURST, NODATABURST, DB, NDB

```
CLI options                      Workbench tooltypes

DATABURST | DB       DATABURST | DB    = ON
NODATABURST | NDB    DATABURST | DB    = OFF
```

Explanation:

This option allows you to control the burst mode of the data cache of the
CPU. Disabling might fix strange behaviour of programs.

1.33   COPYBACK, NOCOPYBACK, CB, NCB

```
CLI options                      Workbench tooltypes

COPYBACK | CB        COPYBACK | CB    = YES
NOCOPYBACK | NCB     COPYBACK | CB    = NO
```

Explanation:

If none of the other option helps improving the behaviour of a lame program,
try changing the state of the copyback mode of the CPU.

1.34   EXTERNALCACHE, NOEXTERNALCACHE, EC, NEC

```
CLI options                      Workbench tooltypes

EXTERNALCACHE | EC    EXTERNALCACHE | EC  = ON
NOEXTERNALCACHE | NEC   EXTERNALCACHE | EC  = OFF
```

Explanation:

This option should give you control over externally installed caches. Due
to lack of such hardware, this could not be tested. Furthermore it seems
not possible to check for existence of such caches in a system friendly
manner. Therefore this option is not accessible.

1.35   VBRTOFAST, VBRTO0, VBRTO, VBR, NVBR

```
CLI options                    Workbench tooltypes


VBRTOFAST | VBR      VBRTO | VBR   = FAST
VBRTO0 | NVBR      VBRTO | VBR   = 0
```

Explanation:

This option gives you control over the VBR of the CPU. Most of old programs
using interrupts don't consider the fact, that 68010+ CPUs have a VBR.
Since Kickstart V36 the VBR is not granted to point to address $0 (which is
located in CHIP memory). If such a lame program accesses CPU vectors which
are offsets to the VBR, and the VBR doesn't point to $0, the CPU jumps to an
undefined memory location. Most of the crashes can be fixed by moving the
VBR to location $0.

1.36   APPEND, NOAPPEND, APN, NAPN

```
CLI options                     Workbench tooltypes


APPEND | APN      APPEND | APN    = YES
NOAPPEND | NAPN      APPEND | APN    = NO
```

Explanation:

The APPEND option is set by default, but can be overriden by NOAPPEND.
APPEND is responsible for the appending behaviour of the file requester (or
the application window feature and the APPICON feature). If you specify
NOAPPEND, the command line will always be overwritten by any new given
filenames. This works for the application icon, the application window
feature and the file requester. You see, when you use APPICON and NOAPPEND
together, it's senseless to supply a startup command line, because it's
going to be overwritten by the objects you drop into the application icon.

1.37   PATH, P

```
CLI options                     Workbench tooltypes

PATH | P   = path  PATH | P   = path
```

Explanation:

Using this option you may specify a default startup path for the file
requester of the GUI. This is useful if the program you want to execute is
not located in the current directory.

1.38 GUIDENAME, GN

```
CLI options                      Workbench tooltypes

GUIDENAME | GN    = name  GUIDENAME | GN     = name
```

```
Explanation:
```

Using this option you may specify a default path/name for the guide help
document. This is useful, if you press the HELP key in the GUI and no guide
help appears.

1.39 COMMANDLINE, CL

```
CLI options                      Workbench tooltypes

COMMANDLINE | CL  = cmd COMMANDLINE | CL  = cmd
```

```
Explanation:
```

The command line may consist of same complex format as could be used in the
AmigaDOS shell.   The   only   thing you must pay attention to is that the
COMMANDLINE option is always specified as the last one in the whole
parameter line, or if not explicitely specified, the name of the program
that shall be executed must be the last word in the parameter line.
In-/Output redirection is possible.

```
Examples of valid usage:

 RunLame NV VirtualIntelligence                   ;a demo

 RunLame NS C B CB EC VBR CL list >RAM:foo SYS:  ;senseless, but works

 RunLame NOSCREEN CACHE B CL= C:dir RAM:          ;senseless, but works

 RunLame SCREEN VISIBLE COMMANDLINE XCopyPro      ;a copy program

 RunLame NS IC DC IB DB NCB COMMANDLINE=Resident ;works
                                      ;(Resident is resident here :-)
```

NOTE: when you use filenames containing blank characters, you have to
enclose them into triple quotation marks:
 for AmigaShell from C=: RunLame """foo bar"""
 for CShell (Unix port): RunLame \"\"\"foo bar\"\"\"
Otherwise the shell will strip away the quotation marks, and RunLame will
never see them, thus executing the command line without quotation marks,
which of course will interpret the blank characters as name delimiters.

1.40 Configuring RunLame

                           Configuring RunLame

Configuring for shell:

At first the configuring procedure for shell users is going to be described.
As you know you have the possibility to use the built in defaults of RunLame
or the current system settings for some of the configuration parameters
(VBR, CACHE,...). Those can be overridden by further specified options
and parameters. Furthermore you placed the documentation (RunLame.guide)
outside the AmigaGuide path (defined in ENV:AmigaGuide/Path). So when you
want always to use another configuration than the defaults, just make an
alias for the desired configuration.

Example:

 Alias RunLame 'RunLame NODEFAULTS SCREEN INVISBLE VBR LOOP API
                  GUIDENAME=Docs:RunLame.guide'

 So when you now type RunLame, it always opens the API, it loops and uses
 the current systems setting except for the display which is degraded and
 black, and the VBR is always moved to $0.l. Additionaly the guide is found.

Configuring for Workbench:

Workbench users just can do the same, they need only to specify the
appropriate tooltypes for the icon.

Now you can experiment a bit (follow the instructions below):

·MakeLink FROM RAM:DirLame TO RunLame

·Copy RunLame.info (which came with this distribution) TO RAM:DirLame.info

·Edit the tooltypes in this way:
 COMMANDLINE=dir
 APPICON=USE
 LOOP=YES
 DEFAULTS=NO
 (the other tooltypes keep the way they are)

·Now double click DirLame.

Now an application icon named DirLame should appear on the Workbench. Drop
some drawer icons into this and watch what's happening. If you need such
gimmicks very often, you may draw a special icon for this purpose.

Using RunLame from Workbench often shows up the problem, that the default
path of the filerequester (of the GUI) is pointing to the directory where
RunLame is located. This is annoying in the most cases. So if you have a
special directory from where you are used to start the lame programs, set
the PATH tooltype to this directory.

Configuring for Directory Opus:

Directory Opus users may want to install RunLame as a button, which starts
all highlighted files in the file listview.

Enter the configuration module and the Buttons section. Press one of the
still unused buttons. Enter 'RunLame' for Name string gadget. Make a New
entry which is AmigaDOS. Enter '[path]RunLame [options] {f}' in the entry
string gadget (replace [path] by the path where RunLame is located).
Enter Stack size '4000', Priority '0', Close delay '2'. Uncheck all entries
in the Flags... listview gadget. Check Output window and Do all files in
the listview gadget. Click Okay. Click Okay. Click Save. Click Okay.

The new RunLame button is now fully functional. Highlight a lame file and
press the new button. Voilà.

1.41   RunLame `Problems - solutions - corner'

                        Problems – solutions – corner

 ·If you got this error message:

                        Screenmode degrading failed!
                  Forbid all promotion utilities to promote:
                  "RunLame (© by Bilbo 1st of Hypenosis)"

  Then you have probably installed one of the screenmode promotion utilities
  (fi. The Promotor, NewMode, ForceMonitor, PKludge). This promotion tool
  will then promote the compatibility screen too, what is a really stupid
  idea. You should prevent the promotion utility from promoting all screens
  with the title "RunLame (© by Bilbo 1st of Hypenosis)".

 ·After having been degraded, the display snaps back to the normal previous
  mode when a window has been opened. This window might be owned by the
  lame program or any other task. The problem with this window is it's
  ability to bring it's underlying screen to the very front of all screens.
  The currently frontmost screen now forces the display to it's own
  screenmode, thus stopping the graphics hardware displaying a degraded
  display. This is multitasking, and this is Amiga – you cannot do anything
  against this without violating multitasking rules. Of course it is
  possible to avoid this problem by hardware hitting, but this works against
  the concept of multitasking and will therefore not be done. If you need
  this though, try another degrading tool.

 ·The sprite DMA shows weird patterns, though you made RunLame degrade the
  display (which should turn off the sprites, too). If this happens, one of
  the currently open windows became active. All windows have an own pointer
  image, which becomes active on window activation. You may have installed
  an AutoPointer/SunMouse utility which activated a window after the sprites
  have already been turned off. Avoid this by disabling the appropriate
  application (the window-activating one). Another possibility is, that the
  launched program opened a window which became active. You can't easily
  work around the latter problem.

·The program you want to start is self-detaching and the settings of
 RunLame are only valid until the program has detached itself. If the
 program has an option to turn off detaching, then use this option at
 starting the program to prevent detach. Otherwise, bad luck.

·You have Enforcer running and your system always hangs when you start an
 Program using the VBRTOFAST|VBRTO0 option. See the Knows Bugs section for
 an explanantion for this phenomenon. Quit Enforcer before you use the
 VBRTOFAST|VBRTO0 option.

·You press 'HELP' in the GUI, but no online guide opens. Probably the
 documentation (RunLame.guide) is not located in the AmigaGuide path
 (defined in ENV:AmigaGuide/Path). You may add the location of the
 documentation to the AmigaGuide path (which should increase search time of
 AmigaGuide applications). Another possibility is, to use the GUIDENAME
 option to specify the path/name of the documentation guide.

·When you use filenames containing blank characters, you have to enclose
 them into triple quotation marks:
  for AmigaShell from C=: RunLame """foo bar"""
  for CShell (Unix port): RunLame \"\"\"foo bar\"\"\"
 Otherwise the shell will strip away the quotation marks, and RunLame will
 never see them, thus sending the command line without quotation marks to
 System(), which of course will think that the blank characters are name
 delimiters. Let me point out that this is NOT a bug of RunLame, learn to
 live with it.

·When starting RunLame from CShell, and you ask for the error cause using
 the why command, you will always get the message that no error occured,
 even if really an error occured. This is NOT a bug of RunLame, but of the
 CShell V5.31-. If you rely on those error codes, use the AmigaShell of C=
 instead of the CShell.

·You start RunLame with the intention to display the CLI template using
 RunLame ?. The template is displayed, but the shell does not allow any
 CLI input. Instead of waiting for input, RunLame immediately opens the
 GUI. It is probable that you are using CShell V5.20+ and RunLame resides
 in the script path defined in the _path variable of the shell. This is
 NOT a bug of RunLame. I reported this problem to the current developer of
 CShell, so this might be fixed in future. In the meantime fix the problem
 by placing RunLame somewhere in your DOS path which is defined by the
 AmigaDOS command path (fi.: Path Work:BestToolEver ADD; Rename RunLame
 Work:BestToolEver/RunLame) or specify the full path of RunLame's location
 in the filesystem each time you want to use it (this might happen in an
 alias like this: alias runlame Work:BestToolEver/RunLame).

·You tried everything, but you didn't manage to run a lame program
 properly. RunLame is not able to fix very lame programming bugs, so you
 can assume, the programmer of the program is lame himself, or didn't have
 enough time to do a proper code. But nobody is perfect :-)
 Your last chance might be to try other degraders available in the Amiga
 world.

1.42   What or who is lame?

In terms of Amiga scene users the word lame is used upon persons and objects (programs, tunes, pictures,...) and can mean very different things.

Lame persons are people who have their Amiga for a certain time and cannot be called beginners any more. A lamer has not learned anything while the whole time he/she uses his/her Amiga. The thing a lamer can do best is using autobooting software.
Secondly some people who get a very high rate of new software call other users who don't have access to the latest programs lamers, too. But in this case the lamer is the one who is proud on getting the latest software (yOoOo ya'r so 3lIté :-), in my eyes.

Third possible approach for defining a lamer is the person's coding abilities. Some people name others lamers, due to the fact that their programming abilities are more advanced than the ones of the others. Very often do programmers call others lamers because they think they are themselves very kewl and unbeatably the best. In most cases the code of such superc00ld00dz turned out to crash on non-Amiga500-$C00000 models. Decide yourself who is lame here.

The latter definition leads us to the subject of lame productions, of maybe lame people. In the case of RunLame only lame programs are of an interest, other kinds of lame objects are not considered here.

Some people call it lame to use system functions in programs and therefore program everything themselves. The makers of trackloading demos seem to think in this track. Poorly the people who think to be able to make it always better than the operating system fail to test their code thoroughly and often their programs don't work on advanced hardware or operating system improvements. Other people like their demos to be run out of the Amiga's multitasking environment and turn off the multitasking. Some of them are so smart to think after a single Disable() the multitasking is shut down properly and they might do what they want (fixed address code, assuming screenmode/resolution is set properly, assuming there are no caches, or VBR). The demo may run, and if, it might never return to multitasking. Others return to multitasking, which is totally trashed then. This seems to be worth called lame, doesn't it?

Most kinds of demo effects or game effects cannot be programmed satisfactory using the system functions, so shutting down the system is not a bad idea, but shutting down a multitasking system requires a high level of understanding how multitasking works on an Amiga. So if people think they can code like kings, make a lot demos that crash all sorts of Amigas, they ridicule themselves and just do show that they try to jump around before they have learned to walk stably. In my eyes this is really lame and childish.

It is simply annoying to have to reboot the machine, just because having watched a demo or having played a game. This must seem very ridiculous to an IBM-compatible PC user, whom you try to impress by showing demos that always force your machine down to it's knees. Seriously, we all laugh about the lame PCs and PC programs, but most of the brill' Amiga demos are less compatible.

So if MSDOS/WINDOWS PCs are lame (and they are), don't be as same as lame!

Think twice, what is the difference between Amigas and PCs!

1.43   What a TLA is

A TLA is a TLA for the word Three Letter Acronym.

1.44   What a CPU is

CPU is a TLA for Central Processing Unit.

The CPU is the hardware which reads and executes programs instruction by
instruction.

1.45   What the VBR is

VBR is a TLA for Vector Base Register.

The VBR points to the memory address, which is the base for several vector
offsets (f.i. interrupt vector offsets).

1.46   What a MMU is

MMU is a TLA for Memory Management Unit.

A MMU is a very powerful memory mapping hardware. It allows f.i. mapping
addresses generated by the CPU to another hardware address. If no hardware
address can be associated, an interrupt can be triggered. This both allows
implementation of virtual memory.

1.47   What OCS is

OCS is a TLA for Original Chip Set. The graphics abilities available under
OCS are the lowest possible on any Amiga Model.

1.48   What ECS is

ECS is a TLA for Enhanced Chip Set. The graphics abilities available under
ECS are a superset of the graphics abilities of OCS.

1.49 What AGA is

AGA is a TLA for Advanced Graphics Architecture. The graphics abilities available under AGA are a superset of the graphics abilities of OCS and ECS.

1.50 What a GUI is

GUI is a TLA for Graphical User Interface.

A GUI should even unexperienced users enable to access a utility without being confused by a variety of new objects and operation methods. Standardized GUIs like supported by gadtools.library give programs based on it a similar look. All operations are accessed by the same objects and their behaviour is standardized (objects are checkboxes, cycle gadgets, listviews, pull down menus, drop-in-icons, drop-in-windows,...).

1.51 What MUI is

MUI is a TLA for Magic User Interface.

MUI is a very powerful class oriented GUI. MUI is © by Stefan Stuntz.

1.52 What an API is

API is a TLA for Application Icon.

An API is an icon into which you can drop other icons. Normally application icons are located on the Workbench and icons of any file can be dropped into it.

1.53 What is AmigaGuide

AmigaGuide is a hypertext system for the Amiga. You are using it right now. This text is displayed by an application supporting AmigaGuide documents.

1.54 What is Enforcer

Enforcer is a tool written by Michael Sinz. It helps developers to find some kind of bugs. The symptoms of such bugs are called Enforcer hits.

1.55   Other Degraders available

Other system degrading software

By time several other degraders with different facilities are available in
the Amiga world. I will not give a rating for them, but you should beware
which you use, some are in fact of minor quality and might crash your system
(and crashing the system is indeed a poor idea while you are write-accessing
any form of disk).

All degraders known to me are listed below and are available from AmiNet
(lowest required Kickstart release in []s):

```
  Degrader   V1.30  [V1.2 - V3.0, depends on used features]
  EmbedderII V1.0   [V2.04 - V3.0, depends on used features]
  KillAGA    V2.0   [V3.0]
  RunIt      V1.4   [V1.2]
  RunShit    V1.06  [V1.2]
  WBKillAGA  V1.0   [V3.0] (needs KillAGA)
```

I doubt that you will have more luck using those programs, but if so,
contact me and let me know.

Ah, and let me point out, that Degrader was the first degrader published.
Degrader just lacks the capability of restoring the system to it's previous
state, so RunLame was born. All other degraders known were released after
RunLame, hence any resemblance to RunLame is probably not only a
coincidence.

Nevertheless RunLame is the only Degrader available to me, that was able to
switch the display into PAL mode when a screenmode of a graphics board was
active (tested with a Merlin graphics board © by X-Pert). All other
Degraders just left the graphics board's screenmode active.

1.56   Beta testing of RunLame

How RunLame has been ß-tested

At first RunLame is tested by the author who has access to several Amiga
computer models (his own and computers of friends of him). So RunLame is
instantly tested on the following configurations:

·Amiga 2000 (68000, ECS, Kickstart 2.04, Workbench 2.1)
·Amiga 3000 (68030, ECS, Kickstart 2.04, Workbench 2.0)
·Amiga 3000 (68030, ECS, Merlin, latest available Kickstart and Workbench)

When RunLame works o.k. on above models, it is sent to several people
(ß-testers) on the internet computer network. Because the author has no
quick access to an AGA model, he relies on bug reports from his ß-testers.
Many of the ß-testers have an AGA machine, so RunLame will be tested under
this environment.
Because the author often receives AGA bug reports some days after
spreading the latest ß-versions of RunLame, the turn-around times for bug
fixing are enormous (no direct feedback if the bug is really gone after

having modified RunLame). So after adding a new feature, the author has to wait for rather a long time after spreading the ß-version to ensure no bugs were embedded. After this certain time interval, RunLame theoretically is ready to go to a public audience.

So, when the ß-testers are lazy and don't send a bug report when they find a bug, a buggy version will be spread to a wide audience. The bugs in it will only affect AGA machines though. This problem has shown up on version 1.28 which used to crash on AGA models, but the author didn't recognize the bug, because RunLame worked very normal on the above mentioned machines.

The author asks the AGA users of RunLame for their understanding and forgiving if a version of RunLame doesn't work on their configuration. All known bugs will of course be fixed as fast a possible. If someone desires to send me a bug report or wants to become ß-tester, feel free to contact the author.

1.57 Known bugs in RunLame

Known bugs

·If Enforcer is running while RunLame is trying to move the VBR to $0.l, the machine hangs. Of course this should not happen – I guess this happens because some system configurations redirect the Enforcer output to a window, and when RunLame copies the $0-$400 page this causes a whole bunch of Enforcer hits. I guess this is a bit too much for the Enforcer window, but I am not sure about this. Normally there should be reported several accesses to the addresses $0-$400, because RunLame MUST save vectors that it is going to change, in order to restore them when leaving (should cause some more Enforcer hits). I can't work around these Enforcer hits, RunLame MUST access these vectors on low level, sorry if this is annoying you.

1.58 Future plans with RunLame

Future plans

·When pressing 'Help' key show the appropriate node to the element the pointer points to (f.i. the node for the filerequester gadget if 'Help' is pressed while the pointer points to this gadget.)

·Emulation of fake fast RAM at $C00000 on systems which have a MMU installed. For this purpose I rely on information about MMU programming, which is not yet available to me. If you want to help me, send me information. Especially I am in need of 68030 MMU code.

·NoFastMem, 1mb/.5mb chip mem memory reduction features.

·Gio suggested that a config file parameter would be handy. I will do this someday (will I? :-)

·I would like to distribute a really funny icon together with RunLame. So if you want to draw one, feel free to send it to me.

·I still need a native english speaker to correct my lousy english in the
 documentations for RunLame.

·Shall RunLame's window become font adaptive in future?

·Does anybody need an ARexx port for RunLame?

·Is it useful to localize RunLame?

·Do you have any suggestions (to improve RunLame or the documentation)?

1.59 Features that won't be implemented in RunLame

                           Features not to come

·Someone asked for a bootblock intro removal feature. This has in no way
 anything to do with system degradation, so why the heck should it make
 it's way into a degrader?

·MUI instead of gadtools GUI. RunLame is intended to be a short program,
 to allow selfmade intro compilation disks without eating up too much disk
 space. MUI itself is a disk space killer, understand?

1.60 RunLame history

                               History

  Version 1.1

   ·Public release named 'RunPal'. No features except
    for screen degrading.

  Version 1.25

   ·First public release named 'RunLame'.

  Version 1.28

   ·Second public release.

   ·WARNING!! This release crashes on AGA machines.
    Read about beta-testing to understand why.

  Version 1.32

   ·Third public release.

  Version 1.34

   ·Fourth public release.

1.61   First public release

V1.2ß: ·Not released.

         ·Corrected the version string to be displayed OS3+ conform using the
          CLI "Version" command.

V1.3ß: ·Not released.

         ·Disables caches, burst modes and copyback mode now.

V1.4ß: ·Not released.

         ·Added the template switches for screen, caches, burst, copyback and
          VBR moving (VBR moving is not yet implemented).

         ·Online help available now via HELP.

V1.5ß: ·Not released.

         ·RunPal is renamed to RunLame due to many enhancements that were
          added to the program, which now doesn't only open a PAL screen, but
          is able to run many more lame programmed software.

         ·VBR is only moved when nescessary, it is enclosed in Disable()
          Enable(), Caches   will   be flushed and overwritten data is
          saved before moving and restored after restoring VBR.

V1.6ß: ·Not released.

         ·The screen has been minimized and can be in-/visible now.

       ·RunLameInfiltrator is now distributed with the package.

       ·FileLinker and FileUnlinker are now distributed with the package.

V1.7ß: ·Not released.

         ·Due to improved system conformity the little PAL screen has a name
          now.

V1.8ß: ·Not released.

         ·Graphical user interface added.

V1.9ß: ·Not released.

         ·Performed some improvements of GUI.

         ·When having used GUI all possible CLI window output of the
          commandline executed is redirected to an automatically opening CON:
          window, which can be closed asynchronously to termination of
          RunLame.

V1.10ß: ·Not released.

·Added file requester gadget and ASL file requester to GUI.

·When a further window (any requester for example) is opened by the
 GUI, the menu is disabled totally.

·It is now impossible to launch an empty commandline from within
 GUI.

V1.11ß: ·Not released.

·When a further window (any requester for example) is opened by the
 GUI, the gadgets are all disabled (except for the GENERIC_KIND).

·Fixed a spelling error: 'modi' -> 'modes'

V1.12ß: ·Not released.

·Window now has a zoom gadget and is aware of resizing (DragIt), try
 to resize the window with a resizing patch program, it will allways
 snap back to it's old size. Nobody should try to resize a window
 without sizing gadget, Bilbo's windows will strike back :-)

·The settings can be chosen now. You may use the default settings of
 RunLame, or you can force RunLame to configure to the current
 system settings.

·The above mentioned settings can be overridden by using options.

·The resulting configuration of RunLame is reflected by the GUI now.

V1.13ß: ·Not released.

·The RunLame GUI now is an application window when the Workbench is
 opened, hence (even multiselected) icons can be dropped in to fill
 the commandline string gadget.

·RunLame may now be started from Workbench. The icon may contain
 various tool types.

V1.14ß: ·Not released.

·If RunLame has to inform the user of an error, this will happen
 depending on where it has been started from:
 Has RunLame been started from the CLI, all error messages go to the
 default output of RunLame, hence it can be redirected (needed for
 script files, maybe). Has RunLame been started from the Workbench,
 all error messages appear in requesters, providing full comfort.

·Dropping icons into RunLame's window now adds the path/name of the
 appropriate object to the commandline string gadget (gadget is not
 cleared, as in previous version).

·Usage of the file requester now adds the path/name of the
 appropriate object to the commandline string gadget (gadget is not
 cleared, as in previous version).

·When launched from Workbench, all multiselected icons' (objects)

path/name will appear added to the commandline string gadget.

V1.15ß: ·Not released.

·Bug fixed: Previous versions did try to get the path/name of
RunLame into a 30 bytes buffer. When both together was bigger, the
starting from Workbench would fail (only V1.14). The buffer is now
128 bytes bigger, and the path is not retrieved any more when
started from Workbench, in no case the path will be prompted.
Hoooray, this was the first bug found in RunLame!

V1.16ß: ·Not released.

·When any additional requester is opened by RunLame itself, in the
meanwhile all input to RunLames's main window is blocked and the
pointer changes to busy image.

V1.17ß: ·Not released.

·Bug fixed: Previos versions failed on pathes/filenames including
space characters, because Execute() couldn't find them when they
are not enclosed in "'s. Now a " is pre-/appended if
pathes/filanames contain space characters.

·A seperating space is only inserted in the string gadget when
nescessary.

·When commandline string gadget overflows while using the
application window feature or the filerequester or the startup
multiselect feature, a DisplayBeep() is generated to alarm that not
all selected names are reflected in the string gadget.

·Application icon feature added. This is not yet working as stand
alone, but in combination with the GUI it is fully functional.

V1.18ß: ·Not released.

·APPICON feature now fully functional. Double click the application
icon to quit RunLame.

·LOOP option added. RunLame will pop up again after having executed
a commandline, until it is definitely quitted by the user. This
feature has been suggested by Milano.

·Bug fixed: Launch menu item is enabled now when a commandline is
given at RunLame startup when using the GUI.

·Bug fixed: It was possible to launch an empty commandline from GUI
when clearing the string gadget, not pressing Enter, but selecting
the Launch menu item.

V1.19ß: ·Not released.

·Bug fixed: The PAL screen tag list was not terminated with
TAG_DONE. I wonder why this worked:-)

·The PAL screen now is in PAL:Low Res (non interlaced).

·PATH parameter implemented. Supply a path with PATH to set the initial drawer of the file requester. This feature again has been suggested by Milano.

V1.20ß: ·Not released.

·The gb_MemType is set to BANDWIDTH_1X now on AGA machines. This has been suggested by ID of Sphinx. The tip came originally from Randell Jesup.

·Now System() is used to execute the commandline, instead of Execute(). Thus now it's possible to break all breakable runlamed programs. Furthermore the error number generated by the commandline is returned by RunLame now.

V1.21ß: ·Not released.

·Bug fixed: Since V1.19ß there has been an Enforcer hit to $0 when PATH has not been specified. This didn't hurt, because at $0 normally a 0 byte is located, so the PATH was considered as empty string, and this is what we wanted it to be when we don't specify a PATH.

·The output window now will open with full width on all Workbenches (it did formerly open in maximal 720 pixels width).

·Changing and restoring gb_MemType is now safer (no task switching in meanwhile). When another task changes gb_MemType after we did, the old value is not going to be restored, so we don't kill the environment of the other task (BTW, nobody had problems, but I think it's just smarter this way).

·Some internal improvements (now setting the secondary error code, too, though it seems this is not nessesary).

V1.22ß: ·Not released.

·This version is somewhat experimental, I have to wait for the results of my ß-testers, because I don't own an AGA model. gb_MemType is only changed during the opening of the little PAL screen. Both happens while only interrupts are allowed but no taskswitching, thus reducing the chance another task can open a screen with the wrong bandwidth. This would be the smartest way to do this all, but I don't know if this works. Furthermore all screens opened by programs in the execution commandline will have the former system bandwidth, but these programs should be aware of that when they are systemfriendly (I know only 2 demos which do open a screen using OpenScreen(TagList)()).

V1.23ß: ·Not released.

·Bug fixed: NOVBRTOFAST switch didn't work.

·Bug fixed: VBRTOFAST did hang the system when the VBR was originally located at $0.l (WHY do I always have to find these nasty bugs myself, I thought I had beta testers :-). This bug has

been in RunLame for a rather long time, but I don't know exactly since which version.

·Heavy internal changes to the processor degrading/restoring code. It is now much more safer and no inconsistencies in multitasking with other tasks changing the same registers should occur (though nobody reported any problems).

·When LOOP and GUI is used, the GUI pops up first time centered under the mouse pointer, but the next times it pops up always where it was located before disappearing. This feature has been requested by Milano.

V1.24ß: ·Not released.

·The file requester now remembers the last entered directory when OKAY has been selected (not if CANCEL has been pressed). Again a suggestion by Milano.

·When using menu item 'Enter commandline' while window is zoomed, the window will be brought to full size.

·Bug fixed: When the height of font used for RunLame's GUI window drag bar differed from 8, the zoom gadget did still zoom the window to a height of 8 pixels, which resulted in an awful looking window drag bar. The zoomed height of the window now depends on the height of the font used for the window's drag bar. (Does none of my ß-testers use a font with another height than 8 ? Or do they never zoom the window ?)

V1.25: ·Released to the public for the first time.

·It's now possible to turn off the commandline appending feature with NOAPPEND. I really can't see why anybody could need this, but I added this for Milano. I might reference this mode by 'dumbnosemode' :-).

1.62 Second public release

V1.26ß: ·Not released.

·The PAL screen name is now identical for all forthcoming versions, so it is not needed to update any databases where the screen name has been registered (NewMode, Domino promotion system, ...).

·The windows drag bar height in zoomed state is now calculated as proposed in the include files of C=.

V1.27ß: ·Not released.

·When screen degradation is activated (SCREEN option), the sprite resolution for that PAL screen is explicitly reset to low resolution. This might not be needed, because the sprite resolution for a that PAL screen should be lores anyway. In case of false promotion of that PAL screen, at least the sprites will be

set to lores now.

V1.28:   ·Second public release.

          ·When screen degradation is activated (SCREEN option), the sprite
          DMA of the mouse pointer will point to a NULL graphic, thus
          reducing the chance of sprite flicker if the lame program does just
          disable the sprite DMA in the wrong moment. This does only work
          if the user doesn't activate any window in the launch phase,
          because all windows keep their pointer for greater convenience.

          ·The CLI option NOVBRTOFAST has been renamed to VBRTO0. The
          Workbench tooltype VBRTOFAST has been renamed to VBR.

          ·Checking if the PAL screen opened really in PAL lores. Results in
          an error message if a promotor did change the screen mode.

          ·Bug fixed: mutual excluding Workbench tooltypes didn't produce an
          error message.

1.63   Third public release

V1.29ß: ·Not released.

          ·Bug fixed: The cleared mouse pointer was defined to be 0 pixels
          wide. Now the width of it is set to 16 pixels.

V1.30ß: ·Not released.

          ·Bug fixed: When restoring the sprite resolution, a wrong address
          register has been referenced. This might have caused the system
          crashes on AGA models.

V1.31ß: ·Not released.

          ·Changed the 'VBR to fast' gadget to a cycle gadget, which is more
          intuitive. Furthermore changed the appropriate menu item into two
          mutex submenu items.

V1.32:   ·Third public release.

          ·Bug fixed: 'VBR location' submenus were incorrectly reflecting the
          startup configuration of RunLame (VBRTOFAST, VBRTO0).

          ·Bug fixed: RunLame did crash on Kickstarts lower V2.04. CLI and
          Workbench start of RunLame under pre 2.04 Kickstarts is now
          possible without crash and memory loss. RunLame will then exit
          with an error beep but no error message.

          ·Some minor internal improvements.

          ·All new AmigaGuide documentation replaces plain ASCII docs.

1.64   Fourth public release

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V1.33ß:  ·Not released.

          ·Some minor internal improvements.

V1.34:   ·Fourth public release.

          ·Pressing the 'Esc' key now quits RunLame.

          ·It's  possible  to  activate  the  string  gadget  by  pressing  the
           'Return', 'Enter' or 'Tab' key.

          ·The  documentation  guide  will  show if HELP key is pressed in the
           RunLame GUI.
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1.65   Thanks and greetings

```
                            Thanks, greetings

 ·Thanks, Jesus Christ for being the god who cares about us all.

 ·Thanks  and love to my girlfriend for being such a patient person, may the
  lord bless thee and protect thee.

 ·Greets to Zaphod Beeblebrox of Hypenosis (letz do the hype :-).

 ·HOARS to ALFred, a legend is back home @ IRC, letz have a nice time!

 ·U4ia,  may  the Lord show you, that he'll never forget about you.  This is
  no hype, you got the vibe, man. Good luck for MDMA!

 ·Thanx to Delirium for their help.  Without you it would have taken me much
  more longer to implement my first GUI. Keep up good work on DeliTracker!

 ·Thanx to Mjoelnir and his friend to supplying me with 040 MMU code.

 ·Thanx  and greets to the brave beta testers (did I forget someone?):  Zap,
  ALFred, Savage, Dense, Sphinx, Milano, Slammer, Kryss, Andemar, Mnemo,
  Skull, Ikke, Trooper1, VAG, Mjoelnir, Gio, SteveVai, Starfox, Gimli,
  KicStart, Tirreg, Xed, Exolon, Martin, Dizolve. (list in no specific
  order)

 ·Greets  to  all  the nice pals on IRC (Netrunner, XS, Zop, Gucky, Outland,
  Gateway,  Janne, Juggi, Advance, Goldrnr, Shocker, Mag, and all I know but
  forgot now (list in no specific order)

 ·Thanx to Jean-Guy Speton and all contributors for the AmigaDemoList, which
  contains valuable compatibility information about various demos.

 ·Last  but  not  least,  I  send  encouragement to all those who made these
  despicable  lame  programs,  thus forcing me to spend lots of time writing
  RunLame.  Try  to  do a better job about compatibility, next time.  Using
  RunLame  to make work your own written programs should be a shame for you!
```

One time diskmags will contain compatibility ranking lists, I hope.

1.66   How to contact the author of RunLame

For bugreports, ideas, suggestions, improvements, questions and all other
concerning RunLame meet me on IRC on channel #amiga or #amigager.