

FracPro

COLLABORATORS

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Chapter 1

FracPro

1.1 FracPro 1.61

A Mandelbrot Fractals drawer. 24bits. fast. precise.

Current version : 1.61 Date : 07.01.96

What's new since 1.52 ?

Copyright
Contacting me

Introduction
Compatibility
Documentation
Problems
Bugs

Acknowledgements
The last word

1.2 neuf

Good question

1\textdegree{} IFF-packing IFF (680x0) and the drawing (68020+) have been ↔
optimized.

2\textdegree{} Argument -nc disable IFF packing. Usefull when there's a lack of ↔
memory.

3\textdegree{} FracPro runs under NTSC.

4\textdegree{} Awfull bug removed.

5\textdegree{} CycleToMenu compatible.

1.3 Copyright

FracPro is an Allenbrand Brice Production for RINGARD' PRODUCTION.

FracPro is CardWare

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as long as the following conditions are fulfilled:

- all these files must be included :

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expressed or implied. I explicitly reject any responsibility for any
direct or indirect consequence from the use of it.

regtools isn't a part of FracPro and is under copyright Nico François.

1.4 What ?

If you use FracPro, please send me a postcard.

If you do not use FracPro, tell me why and i'll try to improve it.

If you've found a bug, tell me as fast as possible where !

1.5 adresse

My adress :

Allenbrand Brice
5 rue du Manège
68100 Mulhouse
FRANCE

Phone : 89 45 33 37

1.6 Introduction

FracPro is another Fractals drawer program. It was written at first for fun, and to see if it can be as fast as its opponents.

FracPro is the highly improved version of Mandel.... (DPAT #49).

FracPro applies to those who want use fractals pictures in raytracing. Pictures are virtually written in memory in 24 bits, but displayed in 1bit !!

Advantages follows :

- The size of the picture is only limited by the amount of memory.
- Pictures are very precise. They can be used in mapping.
- Computation isn't slowed by displaying.

FracPro makes use of a special mode 'Oil-Paint' that create the most beautiful picture I've ever seend.

1.7 Compatibility

FracPro needs at least KickStart 2.0

FracPro needs at least 1Mo and Reqtools.library in drawer LIBS:
68000' version will need MathTrans.library and FPU versions the
MathIEEEDoubTrans.library

FracPro will use improved graphics routines if you're under Kickstart 3.0

Warning !

For confortable using, you should have a FPU and FAST memory.

1.8 MERCI !

Thanks to Nico François for his reqtools.library

Thanx Thomas" for

- the assembly 68000 Code
- IFF Documentation
- the ZOOM-idea
- plaguing me to build an interface.

Bêta tests have been done by Thomas Pimmel, Jean Marc Boursot.

1.9 The last word

I'll be back

1.10 écran

Picture size :

More the size is high, better will be the results.
It's only limited by the amount of memory.
You should find the correct size in relation with your configuration.

The size will be round to the following multiple of 16.

Yes but I have PROBLEMS

1.11 "

Maximal number of iterations :

If you don't expect to do big zooms, you don't need to change the default value.
More the number is high, slower will be the computation.

Kind of modes :

None Only the 1bit picture will be drawn.
 Use it to find the interesting zone and then change then mode.
2 colors 24bits pictures will only have two colors.

Smooth Picture will have an interesting tablecloth aspect.
 Only for use at little zoom.

OilPainting The nicest, the slowest. No explain, try it !

Yes but I have PROBLEMS

1.12 CONTACT ME

After a zoom, just before FracPro trace the lbit fractal, some pixels are 'disturbed'. I'm working on that.

If you'll find others contact me.

1.13 FPU will help

68000 version have a less precise lbit drawing
Computation precision is limited at the motorola FFP.

All version have optimized assembly code for best efficiency.

1.14 doc

FracPro exists in several versions. Each use the characteristics
off the configuration concerned by.

If several monitors are available, FracPro will let you choose your favorite.

Variation gap

Default Values

Iteration level

Screen size

Modes

START

STOP

SAVE

FracPro has a particularity mouse controlled zoom option.

Yes but I have PROBLEMS

1.15 Gaps gadgets

You enter the intervals X and Y in the 4 gadgets above.

Incorrect intervals will be ignored.

Yes but I have PROBLEMS

1.16 STOP gadget

By clicking on it, you stop the computation.

There is no way to continue it at the level where it were stopped.

Yes but I have PROBLEMS

1.17 START gadget

By clicking on it, the computation is launched.

If mode is different of NONE, the 24bit virtual bitmap is computed at the same time.

By clicking on STOP computation stops.

Yes but I have PROBLEMS

1.18 DEFAULT gadget

By click on it, the default interval appears.

The others parameters won't be affected.

Yes but I have PROBLEMS

1.19 SAVE gadget

By clicking on it you save the 24bit virtual bitmap, in the selected file.
The saving format is IFF24 Byterun0
FracPro put in the comment the parameters used to creat the picture

Don't save on RAM:, RAM: is precious.

Yes but I have PROBLEMS

1.20 Common problems

0) What ? I made a mistake, I've no problems.

1) How can this doc file be correctly read ?

Use Amigaguide !

2) Merci. This done is well done, mais I can't execute FracPro.

You NEED Regtools.library in LIBS: and Kickstart 2.0
Look what the different versions need.

3) Danke, but the START gadget is always 'ghosted'.

Your interval or your screen size are incorrects.

4) Waow, it's difficult, but the SAVE is always ghosted.

MODE must be different from NONE.

5) Sbrooô, But the mode in the screen is not nice.

It seems that you want a to big precision, or the iteration number is too small.

6) Merci, But it doesn't save in PACKED IFF.

If packing doesn't bring enough earnings, FracPro doesn't pack.

for example : the 2 colors MODE with the default values.

7) Yes, but it NEVER packs !!.

You don't have enough memory. Actually, FracPro needs a big buffer to compress. It'll be changed in next versions.

8) When I choose DBLNTSC or PRODUCTIVITY, the screen gets black.

You don't have stored in DEVS:Monitors the good resolutions youre monitor is able to display.

1.21 Zoom

By clicking in the drawing zone, you can specify per mouse a new interval. FracPro compute automaticly ratios.

Yes but I have PROBLEMS