
DATAMAX MOVES TO NEW OFFICE

Datamax has moved to a new location. Please make a note of the new address for future reference:

Datamax, Inc.
1965 Pratt Blvd.
Elk Grove Village, IL 60007

The Datamax telephone number remains 312/981-8288.

For those of you who have visited Datamax, the new offices are located just two blocks south of the old office.

###

SHORT SUBJECTS

The following simple macro creates a quite complex spiral design on the screen. Thanks to Dale Swetman for the idea.

First, get the SWAP called ELLIPSE off your utility disk. Then enter and execute the following macro:

```
NICESTUFF=[CL;A0=0;AI=8;XS=10;YS=10;XI=0;YI=0;$L0=0;$L3=7
           XI=XI+.25;YI=YI+.1
           ELLIPSE A0=A0+AI,0,0,XS=XS+XI,YS=YS+YI,0,3;SK -1]
```

Interesting spirals can be generated with a simpler macro involving the rotation of growing ellipses, but I thought this particular setup especially pleasing.

By changing the values of AI (the amount the angle is incremented on each loop), and the amount of increment to XI and YI in the second line, you can get quite different results.

The macro will run faster if you compile it. And if you plan to play with it, it is easier to create a macro like the following:

```
CNICE=[COMP NICESTUFF,DALE;DALE]
```

-continued

short subjects - continued

Then each time after you edit NICESTUFF, you can execute the compiled version by executing CNICE.

This column will be a regular feature of the Leaves of Zgrass and will be devoted to very short macros that do creative things in an efficient manner.

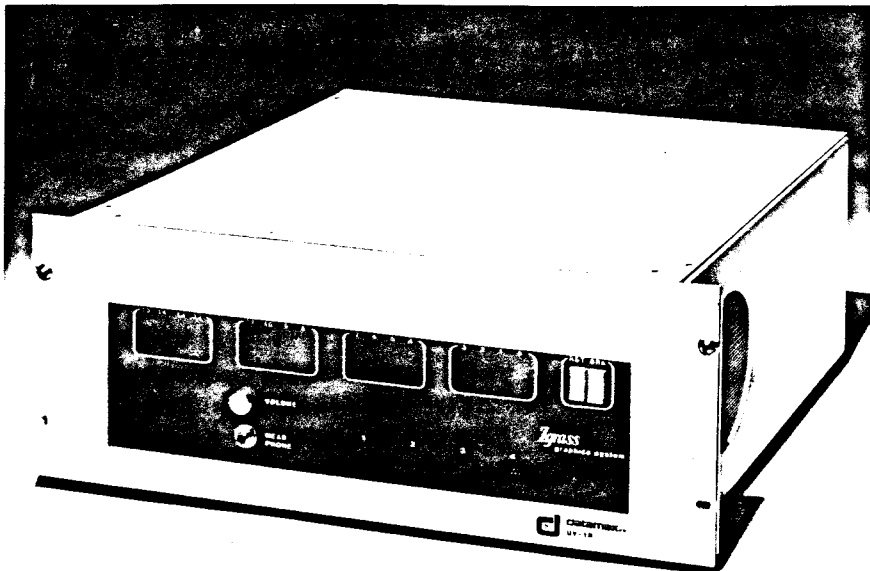
###

DATAMAX INTRODUCES NEW GRAPHICS COMPUTER

Datamax, Inc. has introduced a new graphics computer to generate color graphics and real-time animation. The new UV-1R utilizes the Zgrass graphics language, and, with few exceptions, its operation is identical to the UV-1.

The new UV-1R computer is rack-mounted for professional video environments and contains a new video board for improved composite and RGB output. Furthermore, all peripheral connections are made externally, obviating the necessity to go in through the back to connect drives.

The UV-1R/Zgrass Graphics Computer lists for \$7695 and will be sold through Datamax's nationwide network of dealers.



The Datamax UV-1R/Zgrass Graphics Computer

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SON OF OFFSQUEEZE

```
.SQUEEZE
DLOAD.CLEAR;.                               UNLOCKS SCREEN RAM
WINDOW.FULL;.                               RESETS GRAPHICS WINDOW TO 320 X 201
INPUT b,c,a,d,e;.                           STUFFS YOUR ARGUMENTS INTO THE MACRO
g=d/(a-1);h=e/(a-1);. COMPUTES OFFSETS AND SET $MW=1 TO START
i=1
$MW=i;$TV=i;CLEAR;PR i;. SETS SCREENS TO WRITE, VIEW AND CLEAR
SCALE.SCREEN POWER(b,i),POWER(c,i),Ø,g*i,h*i,Ø
IF i==a i==15,SK 99;.                       PROTECTS SCREEN Ø FROM OVERWRITE
i=i+1;SKIP -3;.                             INCREMENTS SCREEN # & REINITIALIZES $MW
```

What does this sucker do? Run it and find out. There will be a prize for the best explanation submitted before the next newsletter comes out.

Contrary to my desires to let it go at that, I guess we really must have some sort of description for what is going on here. In the video world, you get to see SQUEEZEZOOM ad nauseum. You can do squeezezooms on your UV-1 with the macro SQUEEZE, and a macro called CYCLE to flip through the screens.

In glossary style:

```
SQUEEZE Xscale,Yscale,Screens,Xvanish,Yvanish
```

In real life:

```
SQUEEZE .8,1,1Ø,14Ø,-5Ø
```

This macro will read screen Ø and scale it successively on the number of screens indicated in the Screens argument, offsetting each towards the vanishing point defined by Xvanish,Yvanish. More specifically, in the above example, Screen1 will first be cleared; then the image from ScreenØ will be displayed on Screen1 scaled-down (.8) on the X-axis and unscaled on the Y-axis with its center moved one-tenth (since this example will write to ten screens) of the distance towards the vanishing point (14Ø,-5Ø). Then Screen2 will be cleared and the image from ScreenØ will be displayed on Screen2, this time with a scaling factor of .64 (.8 to the second power) on the X-axis and offset two-tenths of the distance towards the vanishing point. The macro will then continue executing until it has written to the ten screens, as indicated.

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son of offsqueeze - continued

A few words of caution. The scaling arguments of SCALE.SCREEN are limited to a range of -127 to 128; thus you should keep your scale arguments in the SQUEEZE command between -1 and 1. Values between .75 and .9 and between -.9 and -.75 seem to work well. The point defined by Xvanish,Yvanish does not have to be on the 320 x 201 screen.

You will also need a macro to cycle through a defined number of screens. The following is an example:

```
.CYCLE
PROMPT "INPUT NUMBER OF SCREENS TO CYCLE"
INPUT N1
ISTART
K1=0
$TV=K1
K1=K1+1
IF K1>=N1,SK -2
K1=K1-1
$TV=K1
IF K1<0,SK -2
GOTO ISTART
```

So, first put an image that you want to work with on Screen0, for example through the PAINT program. Then execute the following commands:

```
SQUEEZE .9,.8,15,120,60
CYCLE 15
```

The real point of this exercise is that you now have a macro in the form of a Zgrass command to do squeeze-zooms for you. Save SQUEEZE on your utility disk, and you can then use just as you use SCALE.SCREEN, for example.

###

DEMO MATERIALS NEEDED

Datamax is constantly looking for new still and animated graphics to demonstrate the capabilities of Zgrass and the UV-1 computer. Application graphics, e.g., commercial messages, would be most useful.

Unfortunately, we are unable to offer any financial rewards in return for your materials, but your contributions can help ensure that this newsletter grows.

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demo materials needed - continued

Any useable materials received will be acknowledged in the Leaves of Zgrass and the creator will be credited whenever they are used. Please send all materials in on floppy, and you will receive three new floppies as a small token of our appreciation.

If you have examples of your work that you would be willing to share, please send them to Datamax along with the Release Agreement that follows.

RELEASE AGREEMENT

I (the undersigned) hereby permit Datamax, Inc. and its authorized dealers to utilize the Zgrass macros and graphics listed below for demonstration and publicity purposes to include product literature, advertizing, and demonstration videotapes.

It is my understanding that Datamax will not sell the materials that I have provided.

Date: _____

Signature: _____

Name: _____

RECEIVING LEAVES OF ZGRASS

If your address on the address label is incorrect, or if you know of another UV-1/Zgrass aficionado who would like to receive this newsletter, please complete the form below, detach it, fold it up, staple it, stamp it, and return it.

Please note that the subscription price for LEAVES OF ZGRASS has never been increased. Today you get more enjoyment than ever before, and at the same low cost.

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