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****************** KHOROS ********************

The Vision Lab at the University of New Mexico announces the open distribution of the Khoros system (Beta release)!

INTRODUCTION

Khoros is an integrated software development environment for information processing and visualization, based on X11R4. Khoros components include a visual programming language, code generators for extending the visual language and adding new application packages to the system, an interactive user interface editor, an interactive image display package, an extensive library of image and signal processing routines, and 2D/3D plotting packages.

SYSTEM COMPONENTS

X Windows Applications

Cantata - Extensible Visual Programming Language
Editimage - Interactive Image Display & Manipulation Program
Animate - Interactive Image Sequence Display Tool
Xprism2 and xprism3 - Comprehensive 2D and 3D Plotting Packages

Image & Signal Processing Algorithms

The library of algorithms contains over 220 programs, in the following categories: arithmetic, classification, color conversion, data conversion, file format conversion, feature extraction, frequency filtering, spatial filtering, morphology filtering, geometric manipulation, histogram manipulation, statistics, signal generation, linear operations, segmentation, spectral estimation, subregion, and transforms.

User Interface Tools

Preview - Graphical User Interface Display Tool
Composer - Interactive Graphical User Interface Editor
Conductor - Code Generation Tool for a Graphical User Interface
Ghostwriter - Code Generation Tool for a Command Line User Interface
Source Configuration & Management Tools

KHOROS DISTRIBUTION METHODS

1) Anonymous FTP

Khoros is available via anonymous ftp from pprg.unm.edu (129.24.13.10). Use your e-mail address as the password (for example, herman@football.wmu.edu). Once you have logged in, cd to the "pub/khoros" directory and get the ascii file RELEASE_NOTES.ftp. This file will give you complete instructions on how to get Khoros and install it on your system. To get this file, execute the following commands or steps:

a. Use **ftp** to connect to pprg.unm.edu.

```
% ftp pprg.unm.edu
```
-or-
```
% ftp 129.24.13.10
```

b. Use "anonymous" or "ftp" as the user name.

```
Name (pprg.unm.edu:login): anonymous
    -or-
Name (pprg.unm.edu:login): ftp
```

c. Use your e-mail address as the password; please carefully use a valid e-mail address, as this version site logs all anonymous ftp's.

```
Password (pprg.unm.edu:user): {your valid email address}
331 Anonymous login ok, use your E-MAIL address as the password.
230 Guest login ok, access restrictions apply.
```

d. Get the release notes for acquiring Khoros via anonymous ftp (note that "RELEASE_NOTES.ftp" is the plain text file - both ".ms" and ".ps" files are available for those who would like them).

```
ftp> cd /pub/khoros
ftp> get RELEASE_NOTES.ftp
```

2) UPS Delivery

If you would like to have a tape and printed documentation sent to you, send the order form below (last page) along with a $1000.00 check or purchase order (payable to UNM EECE Dept., in U.S. funds) to:

KHOROS
Room 110
Department of EECE
University of New Mexico
Albuquerque, NM 87131

We will begin shipping tapes (source, binaries and printed documentation) no earlier than November 1st. Please remember, this is a BETA release; the final release will be complete in January 1991. There will be no support or updates provided for the beta release.

KHOROS REQUIREMENTS AND LIMITATIONS

To run Khoros, you must have a UNIX platform running the X11R3, X11R4, or OpenWindows servers. The Khoros system consists of ~350,000 lines of C code; it requires ~100 Meg for storage for source, documentation and binaries. To compile Khoros, the system requires X11R4 from MIT (patch levels 1-18), and an additional ~30 Meg of storage.

If you have questions or problems, mail rasure@bullwinkle.unm.edu. Once you have the system and want to report bugs or comments, mail khoros-bugs@bullwinkle.unm.edu.

KHOROS
Room 110
Department of EECE
University of New Mexico
Albuquerque, NM 87131

SHIP TO:
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PHONE NUMBER:
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E-MAIL ADDRESS:
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PURCHASE ORDER NUMBER:
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Media: (Please circle one of the following types of media)

1) SUN3 cartridge (DC600A tape)
2) SUN4 cartridge (DC6150 tape)
3) 9-track tape (1/2 inch)
4) DEC TK50 tape
5) DEC TK70 tape

Binaries: (If you would like a compiled version of Khoros,
please circle one of the following machine architectures)

1) DEC VAX (Ultrix 3.1)
2) DEC MIPS (Ultrix 3.1)
3) SUN3 (SunOS 4.0.3)
4) SUN4 (SunOS 4.0.3)